



Department of Obstetrics, Gynecology and Reproductive Medicine

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Message from the Vice Chairman



Michael Pearl, MD, FACOG, FACS

Vice Chairman for Research and Faculty Development, Department of Obstetrics, Gynecology and Reproductive Medicine

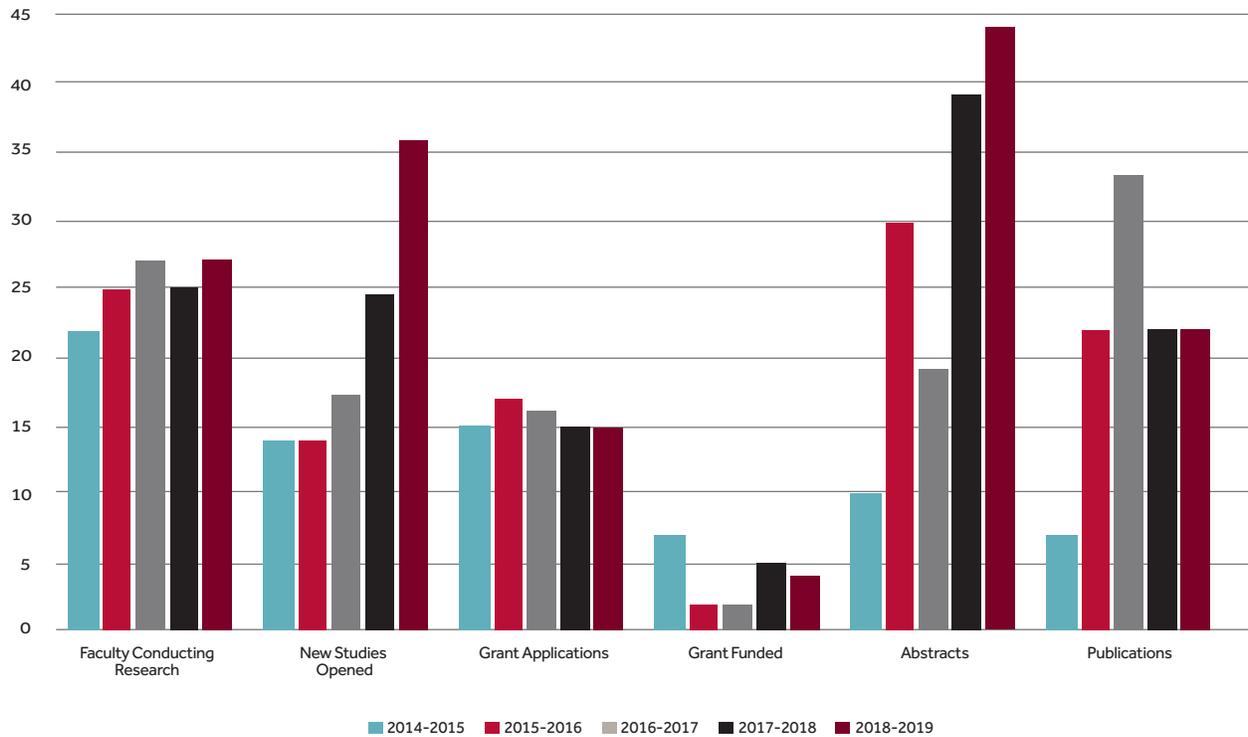
Professor and Gynecologic Oncology Disease Management Team Leader

DIRECTOR'S REPORT 2019

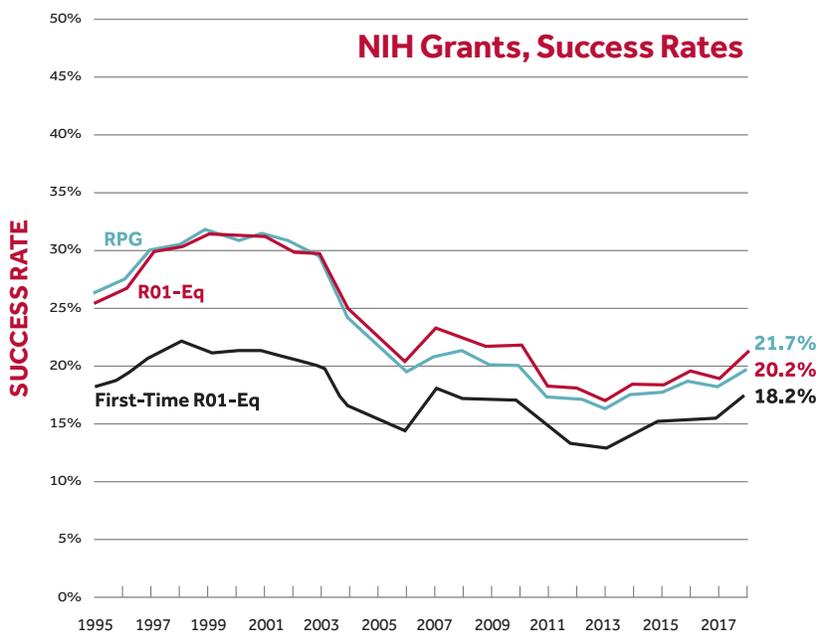
"Sir, it has been wittily remarked that there are three kinds of falsehood: the first is a 'fib,' the second is a downright lie, and the third and most aggravated is statistics." (National Observer, June 13, 1891, p. 93-94)¹. Frequently, but incorrectly attributed to Mark Twain, this phrase describes "the persuasive power of numbers, particularly the use of statistics to bolster weak arguments. It is also sometimes colloquially used to doubt statistics used to prove an opponent's point." In this era of BIG DATA, with its concomitant use of "inductive statistics and concepts from nonlinear system identification to infer laws (regressions, nonlinear relationships, and causal effects) from large sets of data with low information density to reveal relationships and dependencies, or to perform predictions of outcomes and behaviors"², we risk losing sight of the trees for the forest.

In this year's Annual Report of the Research Division of the Department of Obstetrics, Gynecology and Reproductive Medicine, we summarize our research activities for the academic year (AY) 2018-2019. Although the number of faculty conducting research (8% increase), new studies opened (50% increase) and abstracts presented (12.8% increase) increased compared to AY 2017-2018, the other metrics decreased or were unchanged: grant applications (no change), grants funded (20% decrease) and publications (no change).

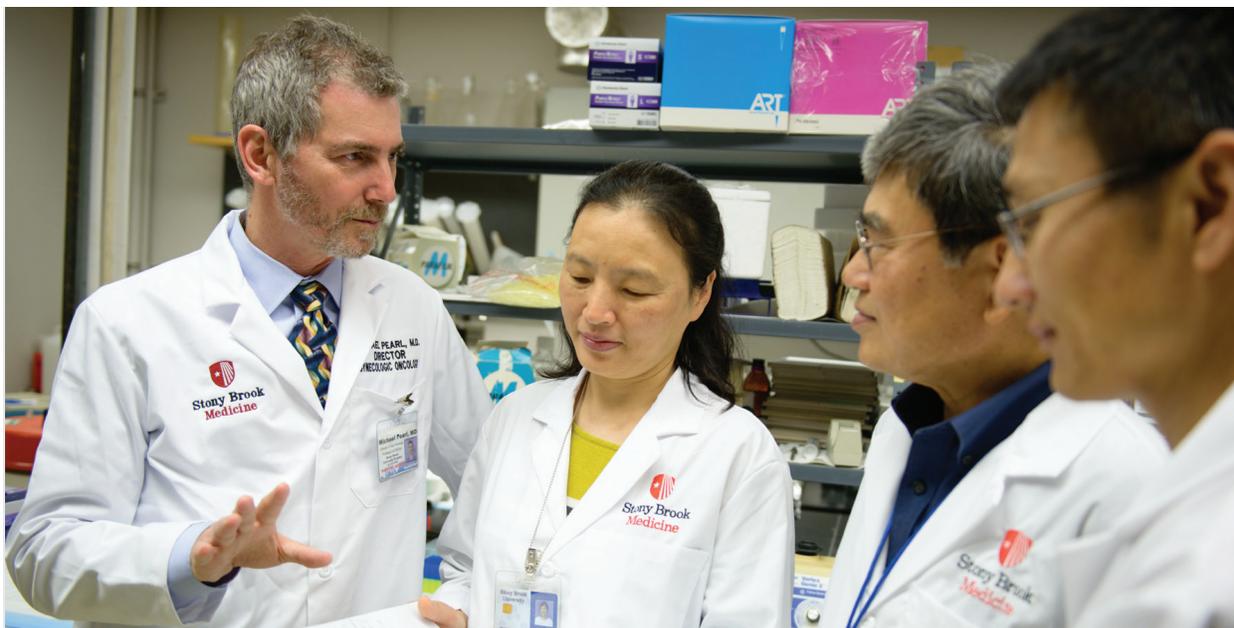
From these data, one could easily infer that our research program productivity, the forest, stagnated. However, this statistical view of the forest obscures the individual effort, the trees, put forth by the faculty. For example, for each of the past three years, we've opened more new studies, with a greater percentage increase each year compared to the prior year (21%, 41%, and 50%, respectively). Furthermore, while the number of faculty conducting research has not appreciably increased, those faculty conducting research are, individually, conducting more studies. Taking into account the time it takes to conduct research, we've seen a concomitant increase in the number of abstracts presented. We anticipate an increase in the number of publications and grant applications as these projects mature.



As another example, the number of grant applications was unchanged and funded grants decreased 20%. Statistically, this section of the forest seems stagnant at best. However, Drs. J. Gerald Quirk (Obstetrics, Gynecology & Reproductive Medicine) and Petar Djuric (Electrical and Computer Engineering) were awarded an RO1 grant from the Eunice Kennedy Shriver National Institute of Child Health & Human Development (NICHD), *“Rethinking Electronic Fetal Monitoring to Improve Perinatal Outcomes and Reduce Frequency of Operative Vaginal and Cesarean Deliveries”*. In an era when the success rate for an RO1 or equivalent grant application remains approximately 20%,³ this is a noteworthy accomplishment requiring tremendous time and effort to achieve.



According to their grant application, “The essential role of electronic fetal monitoring (EFM) during labor is to prevent adverse outcomes due to fetal hypoxia and ischemia. Its established weaknesses include: 1) the obstetrician’s highly subjective visual interpretations of the signal patterns and 2) the widespread use of unproven surrogates for relevant fetal hypoxic and/or ischemic injury such as umbilical arterial pH, intrapartum stillbirth, newborn Apgar scores and neonatal seizures. This technology over the past 50 years has not been shown to decrease stillbirths or reduce



Dr. Michael Pearl discussing data with Dr. Wen-Tien Chen and his team

the numbers of infants with cerebral palsy. EFM as it is presently used in the clinical setting has been associated with an extraordinary increase in the use of operative vaginal delivery and cesarean delivery. No functional algorithm has yet been developed that integrates clinical data collected in the antepartum period and during labor and any other patient specific data with the results of EFM. The main objective of the proposed research is to use recent breakthroughs in machine learning to drive the development of predictive analytics to support and improve the interpretation of EFM data, especially under real world conditions and in real time where clinicians must make timely decisions about interventions to prevent adverse outcomes. *It is anticipated that the proposed research will result in significantly decreased use of operative vaginal delivery and cesarean delivery while more precisely defining the fetus at risk for developing metabolic acidosis and long term neurologic injury.*"

Their horizontal research collaboration will use BIG DATA and involves diverse interdisciplinary and transdisciplinary approaches to a core research project that has the potential to substantially impact obstetrical outcomes. It is "conducive to collaborate because individuals from different cultures and with different belief systems think differently, and collaboration is likely to spur innovative ideas and solutions."⁴

With the consistent support of our Chairman, Dr. Todd Griffin, the clinical division directors, the Research Division staff led by Elizabeth Roemer, the faculty and staff of the Department of Obstetrics, Gynecology & Reproductive Medicine, and our research collaborators, we had a productive and successful year. Statistics (the forest) may be misleading; often, it is necessary to critically assess the data (the trees) in order to clearly see the entire story.

I look forward to an even more productive and successful year in 2019-2020.

REFERENCES

1. https://en.wikipedia.org/wiki/Lies,_damned_lies,_and_statistics
2. https://en.wikipedia.org/wiki/Big_data#Healthcare
3. <https://www.faseb.org/Portals/2/PDFs/opa/2019/NIH%20Funding%20Trends%20Slide%20Deck%202019%20Update.pdf>
4. Shaikh A. <https://www.elsevier.com/connect/a-brief-guide-to-research-collaboration-for-the-young-scholar>

Research Division Overview

Mission

The Department of Obstetrics, Gynecology and Reproductive Medicine recognizes the importance of research by our faculty members, residents and students. One of our core values, as part of the academic mission of the department, is to establish an atmosphere of respect and excitement for research. Our commitment to multidisciplinary team-based women's healthcare is a key component of our efforts to create and expand knowledge and improve the quality of our patients' lives through excellent basic, translational, and clinical research. The Department's mission to foster clinical investigation and translational research amongst the faculty is supported by an established and rapidly growing Division of Research.

Critical to the success of our endeavor is the integration of the pillars of academic medicine: clinical care, education, and research. Excellence in one of these domains is always dependent upon success in the other two. To this end, the Division of Research is dedicated to supporting our faculty members, residents and students in a variety of ways. A few of these, all part of an ever-expanding list, include:

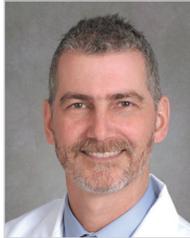
- Aiding our investigators in developing their research interests
- Assisting researchers in the design and development of their projects
- Providing assistance with regulatory compliance
- Helping to identify and secure funding for research projects
- Providing mechanisms to find collaborators in other departments
- Creating opportunities to meet with other investigators to discuss common interests
- Fostering inter-departmental and inter-institutional collaborative research efforts
- Hosting regular research meetings for faculty and staff where projects can be discussed

Highlights

A number of important events impacted the Research Division this year. Key among them were:

- CORIHS approved 24 new Ob/Gyn projects and we currently have 52 projects approved and underway.
- Faculty, fellows and residents produced 24 peer-reviewed publications with an additional 7 in review, and 9 manuscripts in process; as well as 1 book chapter, and 44 meeting abstracts.
- Department faculty were co-inventors on 1 patent (granted) and 1 filed patent application.
- Department faculty submitted 15 funding applications, 8 as PI and 7 in collaboration with others.
- The department currently has PIs with 3 actively funded studies (not including 2 Cancer Center clinical trials). In addition, faculty are acting as mentors or co-Investigators on 1 study and 2 Cancer Center clinical trials.

Staff



Michael Pearl, MD | Vice Chairman for Research and Faculty Development

Dr. Michael Pearl is Professor and Director of the Division of Gynecologic Oncology, as well as the Gynecologic Oncology Disease Management Team Leader at Stony Brook Medicine. He is the Principal Investigator at Stony Brook Medicine for NRG Oncology, a National Cancer Institute-funded cooperative research group dedicated to promoting excellence in the quality and integrity of scientific research. As Vice-Chair, Dr. Pearl oversees departmental research projects and advises faculty and staff on related matters.



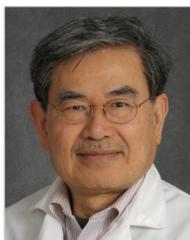
Elizabeth Roemer, MA | Research Coordinator

Elizabeth Roemer is the primary point-of-contact between the Division of Research and the SUNY Research Foundation offices and the Stony Brook Office of Vice President for Research. She facilitates interaction with academic departments on and off campus and aids faculty and residents in developing their research interests. In addition, Ms. Roemer identifies and tracks funding opportunities and works with faculty to develop strategies and proposals for grant and clinical research funding. She is the Division's key resource to obtain auxiliary services and assistance for research enterprises.



Lisa Pastore, PhD | Associate Professor

Lisa Pastore recently joined the Division. She has a PhD in Epidemiology with a minor in Biostatistics with specialization in the genetics of infertility, genetic counseling and infertility, psychology of infertility, and infertility related to Polycystic Ovary Syndrome. Dr. Pastore has experience with NIH funding and an extensive history of successful external research funding. She has over fifty peer reviewed publications and more than a decade of teaching and mentoring experience.



Wen-Tien Chen, PhD | Research Professor

Research Professor Wen-Tien Chen is an international expert in cancer metastasis. Before joining Stony Brook Medicine in 1998, Dr. Chen was the Director of the Tumor Invasion and Metastasis Program at Georgetown University Lombardi Cancer Center. Throughout his career, he has developed novel methods to isolate and analyze metastatic cancer cells and holds a number of patents for these technologies. His most recent work focuses on circulating tumor cells (CTCs) and their use in detecting endothelial ovarian cancer.



Deidre Lee, MHS | Senior Research Support Specialist

Deidre Lee provides support for faculty and residents in their research studies and coordinates ongoing industry-sponsored clinical trials. In this role, she assists with preparation and submission of regulatory documents, consent and enrollment of eligible patients as study participants, and data collection and management. Ms. Lee also aids in IRB submissions, grant writing, chart reviews, and is responsible for supervising undergraduate and medical students as research assistants.



Samantha Dayton, MPH/MBA | Senior Research Support Specialist

Samantha Dayton is responsible for supporting department faculty and residents in the design and biostatistical analysis of research projects. Her training in analysis includes regression modeling, longitudinal data analysis, mixed method modeling, and survival analysis. She is trained in qualitative methods as well, for focus group and interview analysis. She also provides IRB application support and assists in the creation of databases and surveys used in research projects..



Liz Roemer and Julia Opatich at the monthly Ob/Gyn Research Meeting.

Grants and Contracts

Grants Submitted

This year saw 15 applications: 8 with our Ob/Gyn faculty as PIs and an additional 7 applications with Ob/ Gyn faculty as co-investigators.

With Ob/Gyn faculty as PIs:

- June 2019: **Dr. Michael Pearl** (Gynecologic Oncology) submitted a renewal request and was approved for NRG Membership.
- May 2019: **Dr. Diana Garretto** (Maternal Fetal Medicine) & *Dr. Marci Lobel* (Department of Psychology, School of Arts and Sciences) were co-PIs on a TRO Fusion grant application: "Opioid use disorder- advancing prenatal psychosocial screening" with co-investigators **Dr. David Garry** and **Dr. Kimberly Herrera**, (both Maternal Fetal Medicine).
- May 2019: **Dr. David Garry** (Maternal Fetal Medicine) & *Dr. Jackie Collier* (School of Marine and Atmospheric Sciences) were co-PIs on a TRO Fusion grant application: "Inflammatory Markers & Microbiota in Prediction of Preterm Birth" with co-investigators **Dr. Diana Garretto** and **Dr. Kimberly Herrera**, (both Maternal Fetal Medicine).
- May 2019: **Dr. Michael Pearl** and **Ms. Marlo Dombroff** (both Gynecologic Oncology) were co-PIs on a Catacosinos Cancer grant application: "MRI of chemobrain in gynecologic oncology patients" with co-investigators **Dr. William Burke** and **Dr. Gabrielle Gossner** (both Gynecologic Oncology), *Dr. Tim Duong* (Department of Radiology) and *Dr. Thomas Preston* (Department of Neurology).
- March 2019: **Dr. William Burke** (Gynecologic Oncology) submitted an OVPR grant application: "MRI studies of neurovascular health and cognitive function in gynecologic cancer patients" with *Dr. Tim Duong* (Department of Radiology), **Dr. Michael Pearl** and **Ms. Marlo Dombroff** (both Gynecologic Oncology), *Dr. Thomas Preston* (Department of Neurology), and *Dr. Catherine Messina* (Department of Family, Population and Preventive Medicine).
- March 2019: **Dr. Lisa Pastore** (Research Division) submitted an NIH R21: "The Prevalence of BRCA1/2 and Genes Associated with the BRCA1/2 Pathway Among Women with Diminished Ovarian Reserve" with co-investigator **Dr. James Stelling** (Reproductive Endocrinology) and extramural colleagues: *Drs. M.S. Christianson, W.G. Kearns* and *J.H. Segars* at Johns Hopkins and *Dr. M. Hill* at Walter Reed.
- November 2018: **Dr. Lisa Pastore** (Research Division) submitted an NIH R01: "Whole Exome Sequencing and Copy Number Variants in Young Women with Diminished Ovarian Reserve (DORSeq Study)" with co-investigator **Dr. James Stelling** (Reproductive Endocrinology) and extramural colleagues: *Drs. M.S. Christianson, W.G. Kearns* and *J.H. Segars* at Johns Hopkins and *Dr. M. Hill* at Walter Reed.
- July 2018: **Ms. Marlo Dombroff** (Gynecologic Oncology) submitted a grant application: "Clearing the Fog Around Chemo brain" to the Palliative Care Research Cooperative with co-investigators **Dr. William Burke** (Gynecologic Oncology) and *Dr. Nadya Dimitrov*, (Department of PA Education, SHTM).

With Ob/Gyn faculty as co-investigators:

- June 2019: *Dr. Hrisanti Arcan* (Department of Family, Population, and Preventive Medicine) submitted an NIH R03: "Examining associations between maternal and environmental factors with child birth outcomes and weight trajectory" with co-investigators **Dr. James Bernasko** (Maternal Fetal Medicine), *Dr. Janos Hajagos* (Department of Biomedical Informatics) and *Dr. Wei Hou* (Department of Family, Population, and Preventive Medicine).

- June 2019: *Dr. Heidi Preis* (Department of Psychology, School of Arts and Sciences) submitted an NIH R21: "Evaluation and validation of a novel instrument to assess the psychosocial and drug history backgrounds of pregnant women with Opioid Use Disorder" with co-investigators *Dr. Marci Lobel* (Department of Psychology, School of Arts and Sciences), **Dr. David Garry**, **Dr. Diana Garretto** and **Dr. Kimberly Herrera**, (all Maternal Fetal Medicine).
- June 2019: *Dr. James Swain* (Department of Psychiatry) resubmitted an NIH R01 "Opioids and Maternal Brain-Behavior Adaptation during the Early Postpartum" with co-investigators **Dr. David Garry** (Maternal Fetal Medicine) and **Dr. Christina Kocis** (Midwifery).
- March 2019: *Dr. James Swain* (Department of Psychiatry) resubmitted an NIH R01 "Stress and Brain Mechanisms of Drug Relapse in Buprenorphine Medicated Postpartum Women" with co-investigators **Dr. David Garry** (Maternal Fetal Medicine) and **Dr. Christina Kocis** (Midwifery).
- December 2018: *Dr. Petar Djurić* (Department of Electrical Engineering, School of Engineering) submitted an NSF grant "SCH: INT: Toward disruptive transformations for improved medical decision-making during labor" with **Dr. Gerald Quirk**, **Dr. David Garry**, **Dr. Diana Garretto**, **Dr. Kimberly Herrera** and **Dr. Michael Demishev** (all Maternal Fetal Medicine) and *Dr. IV Ramakrishnan* (Department of Computer Science, School of Engineering).
- December 2018: *Dr. Anat Biegnon* (Departments of Radiology and Neurology) resubmitted an NIH R21 "Aromatase Imaging in Ovarian Cancer" with *Dr. Jerome Liang*, *Dr. Dinko Franceschi* (both Department of Radiology), and **Dr. Gabrielle Gossner** (Gynecologic Oncology).
- September 2018: *Dr. Petar Djurić* (Department of Electrical Engineering, School of Engineering) and *Dr. Ramin Parsey* (Department of Psychiatry) submitted an NIH Transformative grant: "Learning computational models: Applying technology to transform mental healthcare delivery, including improving outcomes and reaching the currently under- and un-served" with co-investigators **Dr. David Garry** (Maternal Fetal Medicine), **Dr. Christina Kocis** (Midwifery), **Ms. Elizabeth Roemer** (Research Division), *Dr. Christine DeLorenzo* and *Dr. Richard Rosenthal* (both Department of Psychiatry), *Dr. Christian Luhmann* (Department of Psychology, School of Arts and Sciences) and *Dr. IV Ramakrishnan* (Department of Computer Science, School of Engineering).

Current Active Accounts

During fiscal year 2018-19 we had 8 active funded studies, 3 as the home department, 4 at the Cancer Center and 1 co-funded with another department. 5 of these were newly funded while 3 are ongoing support.

With Ob/Gyn as home department:

- PIs: **Dr. Christina Pardo** (General Obstetrics & Gynecology) and *Dr. Rachel Kidman* (Department of Family, Population and Preventive Medicine) pre-implementation funding of the Health Sector for the SUNY/Kellogg Foundation's Akaye' Sustainable Village & Learning Community (SVLC).
- PIs: **Dr. Gerald Quirk** (Maternal Fetal Medicine) and *Dr. Petar Djurić* (Department of Electrical Engineering, School of Engineering) a 5 year NIH R01: "Rethinking Electronic Fetal Monitoring to Improve Perinatal Outcomes and Reduce Frequency of Operative Vaginal and Cesarean Deliveries" with co-investigators **Dr. David Garry**, (Maternal Fetal Medicine), **Ms. Elizabeth Roemer** (Research Division), *Dr. Christian Luhmann* (Department of Psychology, School of Arts and Sciences) and *Dr. IV Ramakrishnan* (Department of Computer Science, School of Engineering).
- PI: **Dr. Michael Pearl** (Gynecologic Oncology) subcontract from a Vitatex NIH SBIR: "Vita-Cap Tube to Preserve Circulating Tumor Cells in Blood (Phase I & II)".

Grants and Contracts

-continued

At the Cancer Center

- PI: **Dr. Michael Pearl** (Gynecologic Oncology) 1 ongoing clinical trial fund: the "NRG Oncology Foundation Contract" which incorporates the prior "Gynecologic Oncology Group" clinical trial fund.
- PI: **Dr. William Burke** (Gynecologic Oncology) an industry sponsored clinical trial from Tesaro, Inc.: "A Randomized, double-blind, phase-3 comparison of Platinum based therapy with TSR 042 and Niraparib versus standard of care Platinum-based therapy as first line treatment of stage III or IV Nonmucinous epithelial ovarian cancer" with co-investigator **Dr. Michael Pearl** (Gynecologic Oncology).

Ob/Gyn faculty as co-investigators:

- PI: *Dr. Brittain Mahaffey* (Department of Psychiatry) an NIH K23: "An Internet-Delivered Mind-Body Program for Reducing Prenatal Maternal Stress" with **Dr. David Garry** (Maternal Fetal Medicine) and *Dr. Marci Lobel* (Department of Psychology, School of Arts and Sciences, SBU) as members of her mentorship team.

At the Cancer Center

- PI: *Dr. Andrzej Kudelka* (Department of Medicine, Oncology Division) an industry sponsored clinical trial from Five Prime Therapeutics Inc.: "A Phase 1a/1b Study of FPA150, an Anti-B7-H4 Antibody, in Patients with Advanced Solid Tumors" with co-investigators **Dr. William Burke** and **Dr. Michael Pearl** (both Gynecologic Oncology), *Dr. Lea Baer*, *Dr. Jules Cohen*, and *Dr. Alison Stopeck* (all Department of Medicine, Oncology Division).
- PI: *Dr. Minsig Choi* (Department of Medicine, Oncology Division) an industry sponsored project for sample collection from Exact Sciences Corp.: "Blood Sample Collection to Evaluate Biomarkers in Subjects with Untreated Solid Tumors" with co-investigators **Dr. Michael Pearl** (Gynecologic Oncology), *Dr. Lea Baer*, *Dr. Jules Cohen*, *Dr. Andrzej Kudelka*, *Dr. Roger Keresztes*, *Dr. Amna Sher*, *Dr. Alison Stopeck*, *Dr. Yue Zhang*, and *Dr. Shenhong Wu* (all Department of Medicine, Oncology Division).



Dr. Lisa Pastore presenting her PGT Study at the Ob/Gyn monthly Research Meeting

Department Research Activities

Please see Grants (p. 8) and Publications (p. 31) sections for more details



Cecilia Avila, MD, MPH (Division of Maternal Fetal Medicine)

Dr. Avila was a co-author on 4 papers: "Postpartum Cardiovascular Outcomes Among Women with Heart Disease from A Nationwide Study," "Anti-CD19 chimeric antigen receptor targeting of CD19+ acute myeloid leukemia," "Neonatal and maternal outcomes in pregnant women with cardiac disease" and "Premature Cardiac Disease and Death After Preterm Preeclampsia in Women Whose Infant Was Small for Gestational Age."



David A. Baker, MD (Division of Maternal Fetal Medicine)

Dr. Baker was a co-author on 1 paper: "Progesterone effects on vaginal cytokines in women with a history of preterm birth" and the discussant for Dr. Doreen Panzarella's RRD presentation: "BD Affirm and Effect on Clinical Management of Vaginitis."



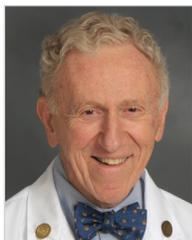
James Bernasko, MD, FACOG, CDE, CDTC (Division of Maternal Fetal Medicine)

Dr. Bernasko had 1 IRB approved project: "Prevalence of undiagnosed glucose tolerance abnormalities at the initiation of prenatal care using Hemoglobin A1c (HbA1c) measurement" and was a co-investigator on 1 NIH R03 grant application: "Examining associations between maternal and environmental factors with child birth outcomes and weight trajectory." He was also the first author on a presentation: "Does ACT between 30 and 34 weeks' gestation reduce morbidity in late preterm/early term neonates?"



Jennifer Blaber, MD (Division of General Obstetrics & Gynecology)

Dr. Blaber was a co-author on a meeting presentation: "Evaluation of an Enhanced Recovery Pathway for Minimally Invasive Gynecological Surgery."



Richard Bronson, MD (Division Chief, Reproductive Endocrinology, RRD Director)

Dr. Bronson served on a study section at NICHD during the past year and became a Section Editor for the journal *Reproductive Biology and Medicine Online* (RBMO). He continued to serve on the Editorial Boards of *Fertility & Sterility* and *Journal of Assisted Reproduction & Genetics* (JARG). He had 3 publications: "Ectopic pregnancy—still a challenge," "My Mother's Incidentaloma" and "Taking Sides."



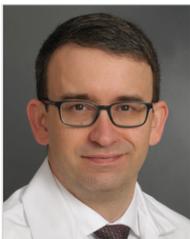
Ayisha Buckley (Resident)

Dr. Buckley worked on a Resident Global health project with Dr. Diana Garretto as PI. Two meeting abstracts: "A Retrospective Look at Fetal Growth Restriction at St. Damien Hospital in Haiti: Neonatal Outcomes" and "An Evaluation of the Maternal and Neonatal Characteristics Associated with Preterm Birth in Haiti" were presented at ACOG. She also worked with Dr. Elizabeth Cochrane on two global health abstracts, submitted to CUGH. Two additional posters presented at ACOG were: "How Uncertain Are Patients in Regards to Invasive Prenatal Genetic Diagnostic Testing?" and "How well do patients clearly understand invasive prenatal genetic diagnostic testing?" with Dr. Lisa Pastore. Additionally, Dr. Buckley participated in "Does a Cesarean Section in the 2nd stage of labor confer an increased risk of cervical insufficiency in the subsequent pregnancy?" a case controlled study with Dr. Kimberly Herrera as PI.



William Burke, MD (Division Chief, Gynecologic Oncology)

Dr. Burke was a co-investigator on 3 grant applications: "MRI of chemobrain in gynecologic oncology patients," "MRI studies of neurovascular health and cognitive function in gynecologic cancer patients" and "Clearing the Fog Around Chemo brain" and on 2 awards for clinical trials: "A Randomized, double-blind, phase-3 comparison of Platinum based therapy with TSR 042 and Niraparib versus standard of care Platinum-based therapy as first line treatment of stage III or IV Nonmucinous epithelial ovarian cancer" and "A Phase 1a/1b Study of FPA150, an Anti-B7-H4 Antibody, in Patients with Advanced Solid Tumors." He was a co-author on 3 meeting presentations: "The utility of comprehensive genomic profiling in selection of actionable targeted therapy in recurrent or refractory epithelial ovarian, fallopian tube and peritoneal carcinoma," "Management of Postpartum Hemorrhage: Transfusion of Blood Products" and "Perceptions and Comfort of Obstetricians and Gynecologists of Cesarean Hysterectomy." Dr. Burke was also a co-author on: "Synchronous renal and para-aortic metastasis in a uterine serous carcinoma: A case review and clinical considerations."



Joseph A. Chappelle, MD (Division Chief, General Obstetrics & Gynecology)

Dr. Chappelle had 5 IRB approved projects: "Intrapartum Risk Factors Associated with Early-Onset Neonatal Sepsis," "Post-operative pain control following Cesarean birth: Should NSAIDs and Acetaminophen play a bigger role?" "BD Affirm for Diagnosis of BV and Effect on Clinical Management of Vaginitis," "The effect of oxytocin washout periods after labor augmentation on cesarean delivery blood loss" and "Effects of diet counseling on gestational weight gain." He was the discussant for Dr. Christina Johnson's RRD presentation: "What are the differences in Maternal and Neonatal Morbidity/Mortality at Stony Brook University Hospital based on Zip code?" He is also an editor for The Journal of Perinatal Medicine.



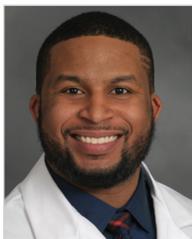
Wen-Tien Chen, PhD (Research Division)

Dr. Chen was co-author on 1 paper: "The propensity of invasive circulating tumor cells (iCTCs) in metastatic progression and therapeutic responsiveness."



Elizabeth Cochrane, MD (Resident)

Dr. Cochrane has multiple research efforts underway. "First trimester maternal serum alpha fetoprotein can help predict ischemic placental disease" with Dr. Kimberly Herrera, Dr. Cheryl Dinglas and Dr. Sara Kim was presented at ACOG and has a manuscript in preparation. "Prevalence of undiagnosed glucose tolerance abnormalities at the initiation of prenatal care using HbA1C measurements" with Dr. Dinglas and Dr. James Bernasko is undergoing data analysis. "The effect of oxytocin washout periods after labor augmentation on cesarean delivery blood loss" with Dr. Joseph Chappelle was her RRD poster presentation and was submitted to the 2020 SMFM meeting. "Placental Abnormalities in Assisted Reproductive Technology (ART) gestations" with Dr. David Garry was also completed and submitted to the 2020 SMFM meeting. "Different Outcomes Amongst Pregnant African-American Patients on Antihypertensive Therapy" with Dr. Jay Davis and Dr. Diana Garretto has been submitted for IRB approval. "Characteristics of High Grade Squamous Intraepithelial Lesions in Pregnant Women" with Dr. Dorota Kowalska, was IRB approved and is undergoing data collection. Dr. Cochrane is also working with Dr. Ayisha Buckley on 2 global health abstracts: "Haiti at First Sight: An Evaluation of the Maternal & Neonatal Characteristics Associated with Hypertensive Disorders of Pregnancy" and "Characteristics, Management, and Delivery Outcomes of Growth Restricted Pregnancies in Haiti," which they submitted to CUGH. She is a co-author on a third submission to SMFM 2020: "Comparison of Opioid Maintenance Therapy (OMT) on Prenatal and Postnatal Growth Effects" and is assisting Dr. Anya Menzies with her project "What is the awareness of obstetricians and gynecologists of the cost of surgery." Finally, Dr. Cochrane was first author on a case report: "Synchronous Renal and Para-Aortic Metastasis in a Uterine Serous Carcinoma: A Case Review and Clinical Considerations."



Jay Davis, MD (Fellow, Maternal Fetal Medicine)

Dr. Davis presented his work under PI Dr. David Garry: "Vaginal MMPs as Predictors of Pre-Term Birth" at RRD with Dr. Diana Garretto as discussant. Jay was first or co-author on 8 meeting presentations and posters. His 3 first author subjects were: "Does 1st Trimester Hemoglobin A1c Predict Adverse Pregnancy Outcomes?" and "How Well Do Patients Clearly Understand Invasive Prenatal Genetic Diagnostic Testing?" Both were presented at the American College of Obstetrics and Gynecology (ACOG) 2019 Annual Clinical and Scientific Meeting in Nashville, TN and the third was "Matrix

Metalloproteinase are Potential Markers for Preterm Birth" at the Society of Maternal Fetal Medicine's (SMFM) 3rd Year Fellow Research Symposium in Chicago, IL. Dr Davis was co-author on 5 additional presentations. Three of these were also at ACOG in Nashville. "Cell Free DNA Screening: Basics and Beyond" was an ACOG Film Festival presentation, while two: "How uncertain are patients in regards to invasive prenatal genetic diagnostic testing" and "Is first trimester maternal serum alpha fetoprotein predictive of adverse pregnancy outcomes?" were posters. "Medication-Assisted Treatment (MAT) in pregnancy: methadone and buprenorphine" was a poster presentation at SMFM and "Selective laser ablation followed by a delayed Solomon technique for twin-twin transfusion syndrome may improve dual survival" was a poster at the 29th ISUOG World Congress on Ultrasound in Obstetrics and Gynecology in Berlin, Germany. Dr. Davis is also working on a retrospective chart review: "The Effects of Vaginal Progesterone in Patients with a Cerclage and/or Makena" with Dr. Gina Milone and PI Dr. Kimberly Herrera.



Michael Demishev, MD (Division of Maternal Fetal Medicine)

Dr. Demishev was a co-investigator on 1 NSF grant application: "SCH: INT: Toward disruptive transformations for improved medical decision-making during labor" and a co-author on 1 paper: "Progesterone effects on vaginal cytokines in women with a history of preterm birth."



Cheryl Dinglas, DO (Fellow, Maternal Fetal Medicine)

Dr. Dinglas had 2 first author papers: "Resolution of intra-amniotic sludge after antibiotic administration in a patient with short cervix and recurrent mid-trimester loss" and "Software-guided insulin dosing improves intrapartum glycemic management in women with diabetes mellitus." She was first author on 4 presentations: "Utility of First Trimester Maternal Serum Alpha Fetoprotein to Predict Placental Ischemic Disease" at ACOG in Nashville; "Is First Trimester Maternal Serum Alpha Fetoprotein Predictive of Adverse Pregnancy Outcomes?" at both ACOG and the Stony Brook Medicine Women in Medicine Research Day; and "Do maternal and neonatal outcomes vary based on indications since the introduction of late preterm steroids?" also at the Stony Brook Medicine Women in Medicine Research Day. Dr. Dinglas was co-author on work presented at 4 additional meetings: "Does 1st Trimester Hemoglobin A1c Predict Adverse Pregnancy Outcomes?" at ACOG and "Evaluating Practice Patterns of Late Preterm Antenatal Steroid Administration and Adherence to Recommendations" presented as posters at ACOG, the Stony Brook Medicine Women in Medicine Research Day, and a talk at the Nassau County OB-GYN Society Research Meeting.



Charissa Dinobile, MD (Resident)

Dr. Dinobile presented her work: "Correlation of Endometrial Tumor DNA Mismatch Repair Status and MELF-Pattern Invasion" as a poster at RRD. Her PI was Dr. Michael Pearl.



Marlo Dombroff, MS, PA-C (Division of Gynecologic Oncology)

Ms. Dombroff has 2 IRB approved studies: "MRI for Chemobrain" and "Treatment Related Cognitive Dysfunction in Endometrial Cancer." She was the PI or co-PI on 2 grant applications: "Clearing the Fog Around Chemo brain" and "MRI of chemobrain in gynecologic oncology patients" and a co-investigator on "MRI studies of neurovascular health and cognitive function in gynecologic cancer patients."



Heather Findletar-Hines, CNM, DNP (Division of Midwifery)

Dr. Findletar-Hine was a co-author on a paper: "Client-Centered Mobile Health Care Applications: Using the Mobile Application Rating Scale Instrument for Evidence-Based Evaluation" and a book chapter: "Additional Skills Training" in The ultimate survival guide for new midwives.



Diana J. Garretto, MD (Division of Maternal Fetal Medicine)

Dr. Garretto was a PI or co-investigator on 4 grant applications: 2 TRO Fusion grants: "Opioid use disorder-advancing prenatal psychosocial screening" (PI) and "Inflammatory Markers & Microbiota in Prediction of Preterm Birth;" 1 NIH R21: "Evaluation and validation of a novel instrument to assess the psychosocial and drug history backgrounds of pregnant women with Opioid Use Disorder" and 1 NSF "SCH: INT: Toward disruptive transformations for improved medical decision-making during labor." She was the discussant for Dr. Jay Davis's RRD presentation: "Vaginal MMPs as Predictors of Pre-Term Birth." Dr. Garretto has 9 projects under way.

1. *"What are the differences in Maternal and Neonatal Morbidity/Mortality across at Stony Brook University Hospital over the past 5 years based on Zip code?"* was a Resident project with Dr. Christina Johnson. This study was designed to assess maternal and neonatal outcomes in Suffolk County by Zip code in order to identify specific subpopulations with outcomes below the national standard. Data analysis is underway.
2. *"A retrospective look at fetal growth restriction at St. Damien Hospital in Haiti"* was a Resident Global health project with Dr. Ayisha Buckley. Two meeting abstracts: "A Retrospective Look at Fetal Growth Restriction at St. Damien Hospital in Haiti: Neonatal Outcomes" and "An Evaluation of the Maternal and Neonatal Characteristics Associated with Preterm Birth in Haiti" were presented at ACOG.

3. *"Promoting Labor Progress to Prevent the Primary Cesarean- Before and After Educational Intervention"* included medical student Nikitha Karkala as a Scholar in Medicine. Since Jan of 2016, we have led a quality improvement initiative in our labor and delivery unit to decrease the rate of cesarean deliveries in low risk women. "Promoting Labor Progress to Prevent the Primary Cesarean— Before and After Educational Intervention" was presented at ACOG.
4. *"Correlation between patient understanding of intrapartum course and satisfaction with labor and delivery experience"* was Dr. Hannah Valdes' RRD project. Data collection is still continuing and abstracts will be sent to ACOG 2020.
5. *"Demographics and Neonatal Abstinence Syndrome in Pregnant Women with Active Opioid Abuse Compared to Pregnant Women on Opioid Maintenance Medications Over the Last 10 Years in a Tertiary Care Hospital"* was a Scholars in Medicine project with medical student Victoria Ly. Two abstracts: "Medication-Assisted Treatment (MAT) in pregnancy: methadone and buprenorphine" and "Is opioid maintenance therapy (OMT) associated with placentomegaly and placental dysmaturity?" from this original study were presented at multiple meetings this year.
6. *"A Randomized Control Trial of Vitamin D Prophylaxis in the Prevention of Hypertensive Disorders of Pregnancy"* was Dr. Malini Persad's Fellow Thesis and was funded by the Department. To date, this project has resulted in 5 presentations: "What is the Optimal Cutoff for Maternal Serum Vitamin D Level to Predict Chorioamnionitis?" "Does Antepartum Vitamin D3 Supplementation Prevent Gestational Diabetes Mellitus?" "Does Antepartum Vitamin D3 Supplementation Prevent Preterm Birth?" "What is the Optimal Maternal Vitamin D Level for the Prediction of Adverse Maternal Outcomes?" and "Does Antepartum Vitamin D3 Supplementation Prevent Chorioamnionitis?" at multiple meetings.
7. *"Ductus Arteriosus changes with increasing Gestational Age"* The objective of this study is to create a nomogram of the DA length by gestational age and to evaluate the distribution of the three morphologic gradings in 4 different gestational ages in the fetus of pregnant women. The routine anatomy ultrasound will be used to enroll patients and then 3 other follow up growth ultrasounds will be done.
8. *"Retrospective cohort study of Vitamin D deficiency in pregnant and postpartum breastfeeding women after bariatric surgery"* Retrospectively collected, de-identified samples in the third trimester in pregnant women, cord blood, and postpartum blood were used for 25-hydroxy-vitamin D analysis in the Stony Brook University Department of Ob/Gyn. Breast milk samples of colostrum (postpartum day 1-7), transitional milk (postpartum 7-21 days), and mature milk (6 weeks postpartum) were also be analyzed for 25-hydroxy vitamin D. Dr. Garretto was first author on a paper from this study: "Vitamin A and β -carotene in pregnant and breastfeeding post-bariatric women in an urban population."

9. "Different Outcomes Among Pregnant African American Patients on Anti-Hypertensive Therapy" This is a new project and has just begun data collection. The primary objective is to compare various pregnancy outcomes (fetal growth restriction, preeclampsia, early preterm birth) when comparing different antihypertensive medications used amongst pregnant African-American women and whether one is superior to the other. Dr. Garretto is also collaborating on 6 projects "OUD life context survey project" with PI Dr. Marci Lobel; "Effects of progesterone on biomarkers in pregnancy" and "A Randomized Control Trial of Buprenorphine vs Buprenorphine/naloxone in Pregnancy" both with PI Dr. David Garry; and "Risk Factors for failure of metformin use in diabetes in pregnancy," "Does a cesarean in the second stage of labor confer an increased risk of cervical insufficiency in the subsequent pregnancy?" and "Pre-operative antibiotics and the risk of post-operative cesarean infection," all three with Dr. PI Kimberly Herrera.

In addition to the publications mentioned above, Dr. Garretto is co-author on "Improving Assessment, Treatment, and Understanding of Pregnant Women with Opioid Use Disorder: The Importance of Life Context." She was a co-author on 7 additional meeting presentations: "Does Adjunctive Azithromycin Treatment at the Time of Cesarean Delivery Improve Maternal and Neonatal Outcomes?" "How Well Do Patients Clearly Understand Invasive Prenatal Genetic Diagnostic Testing?" "Evaluating Practice Patterns of Late Preterm Antenatal Steroid Administration and Adherence to Recommendations," "Do maternal and neonatal outcomes vary based on indications since the introduction of late preterm steroids?" "Does adjunctive cesarean bundle decrease the risk of maternal and neonatal outcomes?" "Does Gestational Age at Diagnosis of Vasa Previa Predict Outcomes?" and "What Factors Are Associated With Resolution of Vasa Previa Diagnosis?"



David Garry, DO, FACOG (Director, Division of Maternal Fetal Medicine)

Dr. Garry had 5 IRB approved projects: "Inflammatory markers and microbiota in preterm birth," "Circulating miRNAs from placental exosomes in pregnant women with substance use exposure," "A Randomized Control Trial of Buprenorphine vs. Buprenorphine/naloxone on the Effects of Maternal Symptomatology," "Opioid Dependence and Pregnancy" and "Placental Abnormalities in Assisted Reproduction." He was co-PI on a TRO Fusion grant application: "Inflammatory Markers & Microbiota in Prediction of Preterm Birth" and a co-investigator on a second TRO Fusion application: "Opioid use disorder- advancing prenatal psychosocial screening." Dr. Garry was also a co-investigator on 5 additional federal grant applications, an NIH R21: "Evaluation and validation of a novel instrument to assess the psychosocial and drug history backgrounds of pregnant women with Opioid Use Disorder;" 2 NIH R01s: "Opioids and Maternal Brain-Behavior Adaptation during the Early Postpartum" and "Stress and Brain Mechanisms of Drug Relapse in Buprenorphine Medicated Postpartum Women;" an NIH Transformative grant: "Learning computational models: Applying technology to transform

mental healthcare delivery, including improving outcomes and reaching the currently under- and un-served” and an NSF grant application: “SCH: INT: Toward disruptive transformations for improved medical decision-making during labor.” Dr. Garry is a co-investigator on an NIH R01 award: “Rethinking Electronic Fetal Monitoring to Improve Perinatal Outcomes and Reduce Frequency of Operative Vaginal and Cesarean Deliveries” and is a member of the mentorship team on NIH K23: “An Internet-Delivered Mind-Body Program for Reducing Prenatal Maternal Stress.” He is first author on the paper: “Progesterone effects on vaginal cytokines in women with a history of preterm birth” and a co-author on “Effects of opioids on the parental brain in health and disease,” “Gestational Diabetes Insipidus: From Presentation to Resolution,” “Reducing mother-to-child transmission of HCV: Is it attainable with a multidisciplinary approach?” and “Improving Assessment, Treatment, and Understanding of Pregnant Women with Opioid Use Disorder: The Importance of Life Context.” He was a co-author on 5 meeting abstracts: “Does antepartum vitamin D3 supplementation prevent preterm birth?”, “What is the Optimal Maternal Vitamin D Level for the Prediction of Adverse Maternal Outcomes?”, “Characteristics and Outcomes of Unexecuted Postpartum Sterilization in High Risk Low Income Obstetrical Patients,” “Medication-Assisted Treatment (MAT) in pregnancy: methadone and buprenorphine” and “Is opioid maintenance therapy (OMT) associated with placentomegaly and placental dysmaturity?” Dr. Garry is a collaborator on “OUD life context survey project” with PI Dr. Marci Lobel. Finally, Dr. Garry was the discussant for Dr. Cara Staszewski’s RRD presentation “Effects of Opioid Maintenance Therapy on the Placenta.”



Gabrielle Gossner, MD (Division of Gynecologic Oncology)

Dr. Gossner was a co-investigator on 2 grant applications: “MRI of chemobrain in gynecologic oncology patients” and “Aromatase Imaging in Ovarian Cancer.” She was a co-author on 2 meeting presentations: “Management of Postpartum Hemorrhage: Transfusion of Blood Products” and “Perceptions and Comfort of Obstetricians and Gynecologists of Cesarean Hysterectomy.”



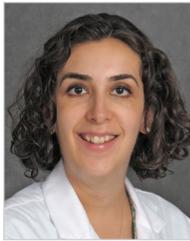
Todd Griffin, MD, MBA (Department Chair, Division of General Obstetrics & Gynecology)

Dr. Griffin has 1 IRB approved project: “Understanding health care disparities in wait times at ObGyn resident clinics” and was a co-author on a paper: “Clinical Updates in Women’s Health Care Summary: Perioperative Pain Management: Primary and Preventive Care Review” and 3 meeting presentations: “Effect of Insurance Type on Patient Access to Outpatient Gynecologic Care,” “Evaluation of an Enhanced Recovery Pathway for Minimally Invasive Gynecological Surgery” and “Management of Postpartum Hemorrhage: Transfusion of Blood Products.” He was a co-inventor on the patent application: “System and Method Associated with Determining Physician Attribution Related to In-Patient Care Using Prediction-Based Analysis.”



Cassandra Heiselman, DO, MPH (Fellow, Maternal Fetal Medicine)

Dr. Heiselman was a first author on a film presentation: "Cell Free DNA Screening: Basics and Beyond" and a coauthor on 4 other meeting presentations: "Identifying Barriers that Delay Treatment of Obstetric Hypertensive Emergency," "Do maternal and neonatal outcomes vary based on indications since the introduction of late preterm antenatal steroids," "Does 1st Trimester Hemoglobin A1c Predict Adverse Pregnancy Outcomes?" and "Selective laser ablation followed by a delayed Solomon technique for twin-twin transfusion syndrome may improve dual survival."



Kimberly Herrera (Division of Maternal Fetal Medicine, Director MFM Fellowship Program)

Dr. Herrera was a co-investigator on 4 grant applications: 2 TRO Fusion grants: "Opioid use disorder-advancing prenatal psychosocial screening" and "Inflammatory Markers & Microbiota in Prediction of Preterm Birth," an NIH R21: "Evaluation and validation of a novel instrument to assess the psychosocial and drug history backgrounds of pregnant women with Opioid Use Disorder" and an NSF grant: "SCH: INT: Toward disruptive transformations for improved medical decision-making during labor." She is a collaborator on "OUD life context survey project" with PI Dr. Marci Lobel. She was the discussant for Dr. Anita Patel's RRD project: "Association of NSAID Dosing on Postpartum Hypertension in Women with Preeclampsia with Severe Features." Dr. Herrera has 8 active research projects.

1. *Does a Cesarean Section in the 2nd stage of labor confer an increased risk of cervical insufficiency in the subsequent pregnancy?* with Dr. Ayisha Buckley and Dr. Diana Garretto. This is a case controlled study looking at women with a prior C-section who then had cervical insufficiency in the subsequent pregnancy, comparing those women who had 2nd stage arrest C-section to those who did not.
2. *First trimester maternal serum alpha fetoprotein (msAFP) and its association with preeclampsia and other adverse pregnancy outcomes* is a project with Dr. Cheryl Dinglas. This is a retrospective cohort study looking at 1st trimester MSAFP to and risk of preeclampsia and other poor pregnancy outcome. Dr. Herrera was the co-author on "Is First Trimester Maternal Serum Alpha Fetoprotein Predictive of Adverse Pregnancy Outcomes?" which was presented at both ACOG and the Stony Brook Medicine Women in Medicine Research Day.
3. *Evaluating practice patterns of late preterm antenatal corticosteroids* is also with Dr. Cheryl Dinglas. This retrospective study looked at appropriate use of late preterm steroids in labor floor. Data collection has been completed and manuscript writing is in progress. In addition, the work has been presented as a poster at ACOG and the Stony Brook Medicine Women in Medicine Research Day as well as a talk at the Nassau County OB-GYN Society Research Meeting. It generated a second abstract "Do maternal

and neonatal outcomes vary based on indications since the introduction of late preterm steroids?" also for the Stony Brook Medicine Women in Medicine Research Day.

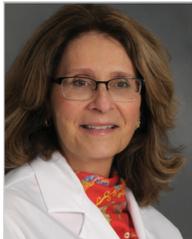
4. *The accuracy of sonographic diagnosis of vasa previa* was done with Dr. Cara Staszewski. This retrospective study looked at all of our vasa previa cases. The data collection is complete and a manuscript is being written. Two abstracts: "Does Gestational Age at Diagnosis of Vasa Previa Predict Outcomes?" and "What Factors Are Associated with Resolution of Vasa Previa Diagnosis?" were presented at the AIUM Annual Convention.
5. *Does supplemental vaginal progesterone decrease risk of preterm birth?* This is a study looking at the addition of vaginal progesterone to women with short cervix already receiving IM progesterone or cerclage. This is a chart review that was done with Dr. Jay Davis and Dr. Gina Milone. Data collections is complete and a manuscript is being submitted.
6. *Does the additional of Azithromycin preoperatively improve the infection rate after C-section?* is being conducted with Dr. Christina Johnson. Dr. Herrera is coauthor on 2 presentations: "Does adjunctive cesarean bundle decrease the risk of maternal and neonatal outcomes?" at both ACOG and the Stony Brook Medicine Women in Medicine Research Day, and "Does adjunctive azithromycin treatment at the time of cesarean delivery improve maternal and neonatal outcomes?" also at ACOG.
7. *Methadone vs. Subutex in pregnancy* is a retrospective cohort study with Dr. Cara Staszewski. This project looks at pregnancy outcomes in women who are on methadone vs Subutex for substance abuse. The data collection is complete and write up in progress. The work has already generated 2 abstracts "Is opioid maintenance therapy (OMT) associated with placentomegaly and placental dysmaturity?" presented at SMFM and the New York Perinatal Society, and "Medication-Assisted Treatment (MAT) in pregnancy: methadone and buprenorphine" also presented at SMFM as well as the New York Obstetrical Society Residents and Fellows Research Day.
8. *Patient understanding with prenatal genetic screening* is a collaboration with Dr. Lisa Pastore examining patients' understanding of genetic screening/testing with CVS and amniocentesis. The work in progress was presented at ACOG as 2 abstracts "How well do patients clearly understand invasive prenatal genetic diagnostic testing?" and "How Uncertain Are Patients in Regards to Invasive Prenatal Genetic Diagnostic Testing?" A manuscript is in preparation.

Dr. Herrera was also a co-author on the paper "Improving Assessment, Treatment, and Understanding of Pregnant Women with Opioid Use Disorder: The Importance of Life Context" and on 5 presentations: "Does antepartum vitamin D3 supplementation prevent preterm birth?" "What is the Optimal Maternal Vitamin D Level for the Prediction of Adverse Maternal Outcomes?" "What is the Optimal Cutoff for Maternal Serum Vitamin D Level to Predict Chorioamnionitis?" "Does Antepartum Vitamin D3 Supplementation Prevent Chorioamnionitis?" and "Does Antepartum Vitamin D3 Supplementation Prevent Gestational Diabetes Mellitus?"



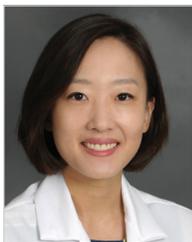
Christina Johnson, MD (Resident)

Dr. Johnson presented: "What are the differences in Maternal and Neonatal Morbidity/Mortality at Stony Brook University Hospital based on Zip code?" as her RRD poster. She was also a first author on several meeting presentations: "Promoting Labor Progress to Prevent the Primary Cesarean—Before and After Educational Intervention" and "Does adjunctive azithromycin treatment at the time of cesarean delivery improve maternal and neonatal outcomes?" both presented at ACOG and "Does adjunctive cesarean bundle decrease the risk of maternal and neonatal outcomes?" presented at both ACOG and the Stony Brook Medicine Women in Medicine Research Day.



Arlene Kaelber, MD (Division of General Obstetrics & Gynecology)

Dr. Kaelber was the discussant for Dr. Jenny Zhang's RRD presentation: "Disparity in Access to Gynecologic Care in US Teaching Hospitals Based Upon Insurance Coverage."



Sara Kim, MD (Resident)

Dr. Kim was a co-author on "Is First Trimester Maternal Serum Alpha Fetoprotein Predictive of Adverse Pregnancy Outcomes?" presented at both ACOG and the Stony Brook Medicine Women in Medicine Research Day.



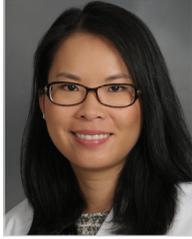
Christina Kocis, CNM, DNP (Director, Division of Midwifery)

Dr. Kocis was co-investigator on 2 NIH R01 grant applications: "Opioids and Maternal Brain-Behavior Adaptation during the Early Postpartum" and "Stress and Brain Mechanisms of Drug Relapse in Buprenorphine Medicated Postpartum Women." She was also a co-investigator on an NIH Transformational grant application: "Learning computational models: Applying technology to transform mental healthcare delivery, including improving outcomes and reaching the currently under- and un-served." In addition, Dr. Kocis was a co-author on 2 papers: "Progesterone effects on vaginal cytokines in women with a history of preterm birth" and "Pregnancy-specific coping and changes in emotional distress from mid- to late pregnancy."



Dorota B. Kowalska, MD (Division of General Obstetrics & Gynecology)

Dr. Kowalska has 2 IRB approved projects: "Outcome of HSIL in pregnancy at our institution" and "The distribution of HPV 16, HPV 18, and other high risk HPV associated with HSIL and cervical cancer compared by racial group."



Xun (Julie) Lian, MD (Division of General Obstetrics & Gynecology)

Dr. Lian was a co-author on "Clinical Updates in Women's Health Care Summary: Perioperative Pain Management: Primary and Preventive Care Review."



Hafsa Memon, MD (Division of General Obstetrics & Gynecology)

Dr. Memon has 1 IRB approved project: "Using NYS SPARCS Database of Obstetrics, Gynecologic, and Gynecologic Oncology Outcomes for Research."



Anya V. Menzies, MD (Fellow, MIS)

Dr. Menzies has 1 IRB approved project: "What is the awareness of obstetricians and gynecologists of the cost of surgery?" She was co-author on a paper: "Synchronous renal and para-aortic metastasis in a uterine serous carcinoma: A case review and clinical considerations" and first author on 2 meeting presentations: "Management of Postpartum Hemorrhage: Transfusion of Blood Products" and "Perceptions and Comfort of Obstetricians and Gynecologists of Cesarean Hysterectomy."



Gina Milone, MD (Resident)

Dr. Milone has 5 projects she is working on.

1. *Does implementation of a Gestational Weight Gain (GWG) video improve adherence to the National Academy of Medicine's recommended pregnancy weight gain guidelines?* is a prospective cohort study with Dr. Malini Persad as PI. The study is looking at whether implementation of a gestational weight gain video module will improve patient adherence to recommended weight gain guidelines in pregnancy as compared to standard counseling. Enrollment of the 2nd arm of the study (the video module) is almost complete and preliminary data was submitted to SMFM 2020.
2. *Prenatal Genetic Diagnostic Testing Study* is a study with Dr. Kimberly Herrera as the PI. They have been administering surveys to women who are contemplating undergoing invasive prenatal diagnostic testing (amniocentesis, CVS), to assess their decisional certainty, distress, and clarity of the testing. Patient enrollment is almost complete and Dr. Milone presented this information at ACOG 2019 under the project title "How uncertain are patients in regards to invasive prenatal genetic diagnostic testing?" They are about to begin writing the manuscript for the project with hopes to submit to a journal in early fall.
3. *HPV and Abnormal Pap Smear Education Project* is a study with Dr. Dorota Kowalska as PI. Similarly, to the gestational weight gain project, they are looking to see if patient anxiety/distress can be reduced by using a video

module that explains abnormal pap smears and colposcopy in patients coming into the office for a colposcopy. They plan to be enrolling patients during the fall and winter of this year.

4. *Does Supplemental Vaginal Progesterone Improve Pregnancy Outcomes in Patients receiving 17OH-P or Cervical Cerclage with Developing Cervical Shortening?* Is a retrospective chart review with Dr. Jay Davis and PI Dr. Herrera. Data collection is complete and they are in the process of submitting a manuscript.

5. *Discrepant nuchal translucency values and adverse twin pregnancy outcomes* is a retrospective study, pending IRB approval with Dr. Malini Persad as PI. The study is looking to see if a discrepancy in nuchal translucency between twins has a predictive role in pregnancy outcomes.



Doreen Ann Panzarella, MD (Resident)

Dr. Panzarella presented her project: "BD Affirm and Effect on Clinical Management of Vaginitis" at RRD. Her PI was Dr. Joseph Chappelle.



Christina Pardo, MD (General Obstetrics & Gynecology)

Dr. Pardo was the PI on the pre-implementation funding of the Health Sector for the SUNY/Kellogg Foundation's Akayè Sustainable Village & Learning Community (SVLC). She was a co-author on 2 meeting presentations: "A Retrospective Look at Fetal Growth Restriction at St. Damien Hospital in Haiti: Neonatal Outcomes" and "An Evaluation of the Maternal and Neonatal Characteristics Associated with Preterm Birth in Haiti."



Lisa M. Pastore, PhD (Research Division)

Dr. Pastore was the PI on 2 grant applications an NIH R21: "The Prevalence of BRCA1/2 and Genes Associated with the BRCA1/2 Pathway Among Women with Diminished Ovarian Reserve" and an NIH R01: "Whole Exome Sequencing and Copy Number Variants in Young Women with Diminished Ovarian Reserve (DORSeq Study)."

Dr. Pastore has six studies underway:

1. *PGT Study* is a study is for people (women and men) who are considering or have recently considered preimplantation genetic testing (PGT), with Marci Lobel, Lisa Rubin (The New School), and Dr. James Stelling. The purpose of this study is to investigate considerations, concerns, and factors underlying the decision-making process about whether to use PGT testing. The work to date has generated 3 papers: "Review of patient decision-making factors and attitudes regarding preimplantation genetic diagnosis," "Patients' Preimplantation Genetic Testing Decision-Making Experience: An Opinion on Related Psychological Frameworks" and "Contributors to Patient Distress and Uncertainty About Preimplantation Genetic Testing Decision-Making: A Narrative Review and Psychological Framework," as

well as a meeting presentation at ASRM: "Navigating preimplantation genetic testing decisions in the age of social media: a qualitative study." An additional manuscript "Preimplantation Genetic Testing: Psychometric Properties of Tools to Assess Patient Decisional Distress and Decisional Uncertainty" is being written.

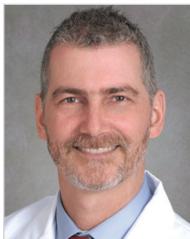
2. *Prenatal Genetic Testing Study* is being conducted with co-PI with Dr. Kimberly Herrera, Marci Lobel, Lisa Rubin, Dr. Gina Milone, Dr. Ayisha Buckley, and Dr. Jay Davis. This is an extension of the PGT Study into the MFM Prenatal clinics. Two posters were presented at ACOG: "How Uncertain Are Patients in Regards to Invasive Prenatal Genetic Diagnostic Testing?" and "How well do patients clearly understand invasive prenatal genetic diagnostic testing?"
3. *Reproductive Decision Making Study* is a study that explores the reproductive decision-making (focus on PGT and prenatal genetic testing decisions) of people at risk to pass on a serious childhood-onset genetic disorder, with Marci Lobel, Lisa Rubin, Dr. James Stelling and Eliana Fine (medical student). Our first 2 manuscripts "Navigating Preimplantation Genetic Testing Decisions in the Age of Social Media: A Qualitative Study" and "Preimplantation Genetic Testing for Aneuploidy: A Qualitative Study of Patient Decision-Making Experiences" are currently being written.
4. *DORSEQ Study*: This is a planned major study of Next Generation Exome Sequencing of women with diminished ovarian reserve. This multi-institutional collaboration involves Stony Brook OB/GYN, Johns Hopkins OB/GYN, Johns Hopkins Biostatistics Core, AdvaGenix Genetics Lab, and Walter Reed Military Hospital. The group resubmitted an NIH R01 in this academic year ["Whole Exome Sequencing and Copy Number Variants in Young Women with Diminished Ovarian Reserve (DORSeq Study)"]. The study team also published a review paper: "Reproductive Ovarian Testing and the Alphabet Soup of Diagnoses: DOR, POI, POF, POR and FOR" and presented associated research at the 2018 ASRM national conference.
5. *BRACDOR Study*: A recent NIH call for applications looking at links between infertility and women's health led to the development and resubmission of an R21 application to NIH: "The Prevalence of BRCA1/2 and Genes Associated with the BRCA1/2 Pathway Among Women with Diminished Ovarian Reserve" with co-investigator Dr. James Stelling (Reproductive Endocrinology) and the team from Johns Hopkins and Walter Reed. This is a planned case-control study of the prevalence of BRCA1/2 and other genes associated with breast cancer. We have a manuscript "Navigating The Body of Literature Assessing BRCA1/2 Mutations and Markers of Ovarian Function: A Systematic Review and Meta-Analysis" in preparation and will submit it shortly.
6. *X Chromosome Next Generation Sequencing of Women with Diminished Ovarian Reserve*: To increase productivity with the Johns Hopkins group, and strengthen the ties for collaboration and grant applications, Dr. Pastore mined her data from an X Chromosome Next Generation Sequencing study from 2013-2014 that had never been published. These data have been used in prior NIH grant submissions, but not reported otherwise. In this past year

results were presented at the 2018 ASRM conference as a talk and 2 posters: "The application of next generation sequencing (NGS) for clinical exomes within an in vitro fertilization (IVF) setting" (oral), "X chromosome sequencing in six women with pathologic diminished ovarian reserve: comparison of prioritization strategies" and "The design and validation to amplify and detect the CCG repeats of the fragile X FMR1 gene by polymerase chain reaction of amplified embryonic DNA followed by fragment sizing on an applied biosystems Seq studio genetic analyzer". An article: "X Chromosome Next Generation Sequencing in Six Women with Pathologic Diminished Ovarian Reserve: Comparison of Prioritization Strategies" is being completed for future publication. Dr. Pastore is also a member of Jennifer Nicoloro's Dissertation Committee (doctoral student in the Psychology Department of Stony Brook University), and Jennifer successfully defended her dissertation in May 2019. Dr. Pastore also conducted two Stony Brook OB/GYN Dept. Research Seminars: "Work/Life Balance: A Panel Discussion and Open Forum" and "Self-Assurance and The Imposter Syndrome: Recognizing and Leaping Over The Hurdles." The latter presentation was also done for the Johns Hopkins OB/GYN Dept. Seminar. She also participated in a 3-round Delphi consensus project regarding data priorities when researching REI topics ("core outcome set for infertility trials (COMMIT)"), conducted by the Cochrane review group. Dr. Pastore is also an Editorial Board Member of the Journal of Assisted Reproduction and Genetics. In addition to the publications listed above "Does the FMR1 gene affect IVF success?" was published in Reproductive BioMedicine Online.



Anita Patel, MD (Resident)

Dr. Patel presented her project: "Association of NSAID Dosing on Postpartum Hypertension in Women with Preeclampsia with Severe Features" at RRD. Her PI was Dr. Joseph Chappelle.



Michael Pearl, MD (Division of Gynecologic Oncology and Vice Chair for Research)

Dr. Pearl was PI or co-PI on 2 funding applications: a Catacosinos Cancer grant "MRI of chemobrain in gynecologic oncology patients", and a subcontract on a Vitatex NIH SBIR "Vita-Cap Tube to Preserve Circulating Tumor Cells in Blood (Phase I & II)." He was a co-Investigator on an OVPR grant application: "MRI studies of neurovascular health and cognitive function in gynecologic cancer patients." He is the PI on 2 ongoing clinical trial funds: the "NRG Oncology Foundation Contract" and "Gynecologic Oncology Group" and is a co-PI on "A Randomized, double-blind, phase-3 comparison of Platinum based therapy with TSR 042 and Niraparib versus standard of care Platinum-based therapy as first line treatment of stage III or IV Nonmucinous epithelial ovarian cancer," an industry sponsored clinical trial from Tesaro, Inc. Dr. Pearl is also a co-

investigator on 2 additional industry sponsored clinical trials: "A Phase 1a/1b Study of FPA150, an Anti-B7-H4 Antibody, in Patients with Advanced Solid Tumors" and "Blood Sample Collection to Evaluate Biomarkers in Subjects with Untreated Solid Tumors."

Dr. Pearl has four ongoing projects:

1. *Correlation of lymphovascular space invasion and circulating tumor cells in women with ovarian cancer* is a collaboration with Dr. Chen and Dr. Tornos (Department of Pathology). This study is part of a larger longstanding collaboration with Dr. Chen looking at circulating tumor cells. Data analysis is complete and a manuscript is being written. The Pearl/Chen efforts have also resulted in a publication: "The propensity of invasive circulating tumor cells (iCTCs) in metastatic progression and therapeutic responsiveness."
2. *Correlation of MELF-type invasion and mismatch repair status in endometrial cancer* is Dr. Charissa Dinobile's RRD project. She presented it as a poster at RRD, and will present the final results at next year's session.
3. *The effect of early postoperative urinary catheter removal on patient satisfaction in gynecologic oncology* was done with Dr. Anya Kutsenok. It is being prepared for a poster presentation at the International Gynecologic Cancer Society meeting in Rio in September.
4. *Is routine pre-operative type and screen necessary in the gynecologic surgery setting?* was done with MD/PhD student Gregory Kirschen, in collaboration with Samantha Dayton (Research Division). The work was presented at ACOG as: "Do Patients Undergoing Surgery on a Gynecologic Oncology Service Really Need a Routine Type and Screen?"

Dr. Pearl is also partnering with Ms. Marlo Dombroff on her Chemobrain project, evaluating cognitive changes in patients being treated for gynecological cancers. He is the co-editor and writing two modules for a palliative care educational curriculum for the International Gynecologic Cancer Society. Dr. Pearl was a co-author on 2 presentations at ACOG: "Management of Postpartum Hemorrhage: Transfusion of Blood Products" and "Perceptions and Comfort of Obstetricians and Gynecologists of Cesarean Hysterectomy." He was also a co-author on 4 papers not mentioned above: "Receipt of adjuvant endometrial cancer treatment according to race: an NRG Oncology/Gynecologic Oncology Group 210 Study," "Surgical outcomes among a geriatric population of uterine cancer patients: An NRG Oncology/Gynecologic Oncology Group ancillary data analysis of LAP2," "A case of metastatic mixed trophoblastic tumor" and "Carboplatin and paclitaxel for advanced endometrial cancer: Final overall survival and adverse event analysis of a randomized, controlled open label phase 3 trial (NRG Oncology/GOG 0209)." Dr. Pearl presented multiple talks, as Grand Rounds, Roundtable or outreach: "Death with Dignity" (Grand Rounds), "Screening for cancer can save your life" (CancerWise Café), "The Gender Gap in Obstetrics & Gynecology: Are Men Going extinct?" (Grand Rounds), "Extreme measures: Finding a better path to the end of life" (Book Club Table Leader), "Drug Development and Palliative Care" (Workshop), "Economic Advantages

of Palliative Care" (Oncology Meeting). He is also involved in Project ECHO, a Virtual Tumor Board under the auspices of the International Gynecologic Oncology Society, which presents at multiple international sites (Kenya, Ethiopia) on multiple dates.



Tatyana Peresleni, PhD

Dr. Peresleni was co-author on a paper: "Progesterone effects on vaginal cytokines in women with a history of preterm birth."



Malini Devi Persad, MD, MPH (Division of Maternal Fetal Medicine)

Dr. Persad had 5 IRB approved projects: "Discrepant nuchal translucency values and adverse twin pregnancy outcomes," "Does implementation of a Gestational Weight Gain (GWG) video improve adherence to the National Academy of Medicine's recommended pregnancy weight gain guidelines?" "Does implementation of a visiting nurse program in the postpartum period prevent hypertensive emergency and hospital readmission in women with hypertensive disorders of pregnancy?" "The Development of a Hypertensive Disorder of Pregnancy Screening Tool: A Method for Standardized Care of the Pregnant Patient" and "Is adenomyosis associated with adverse pregnancy outcomes?" She was first author on a paper: "Gestational Diabetes Insipidus: From Presentation to Resolution" and a co-author on: "Progesterone effects on vaginal cytokines in women with a history of preterm birth." She was first author on 6 abstracts presented at multiple meetings: "Does antepartum vitamin D3 supplementation prevent preterm birth?" "What is the Optimal Maternal Vitamin D Level for the Prediction of Adverse Maternal Outcomes?" "What is the Optimal Cutoff for Maternal Serum Vitamin D Level to Predict Chorioamnionitis?" "Does Antepartum Vitamin D3 Supplementation Prevent Chorioamnionitis?" "Does Antepartum Vitamin D3 Supplementation Prevent Gestational Diabetes Mellitus?" and "Characteristics and Outcomes of Unexecuted Postpartum Sterilization in High Risk Low Income Obstetrical Patients." Dr. Persad was also co-author on 10 additional meeting abstracts: "Does Gestational Age at Diagnosis of Vasa Previa Predict Outcomes?" "What Factors Are Associated with Resolution of Vasa Previa Diagnosis?" "Medication-Assisted Treatment (MAT) in pregnancy: methadone and buprenorphine" "Is opioid maintenance therapy (OMT) associated with placentomegaly and placental dysmaturity?" "How Uncertain Are Patients in Regards to Invasive Prenatal Genetic Diagnostic Testing?" "Does adjunctive cesarean bundle decrease the risk of maternal and neonatal outcomes?" "Does adjunctive azithromycin treatment at the time of cesarean delivery improve maternal and neonatal outcomes?" "A Retrospective Look at Fetal Growth Restriction at St. Damien Hospital in Haiti: Neonatal Outcomes" "An Evaluation of the Maternal and Neonatal Characteristics Associated with Preterm Birth in Haiti" and "How well do patients clearly understand invasive prenatal genetic diagnostic testing?"



Dijana Poljak, MD (Resident)

Dr. Poljak was a co-author on 2 meeting presentations: "Management of Postpartum Hemorrhage: Transfusion of Blood Products" and "Perceptions and Comfort of Obstetricians and Gynecologists of Cesarean Hysterectomy."



Jennifer Pollard, MD (Resident)

Dr. Pollard is currently working on her RRD project: "Effects of diet counseling on gestational weight gain" with Dr. Joseph Chappelle as her PI. In the 2018-2019 academic year, the IRB was approved and data collection is currently underway. Data analysis will be completed early in the 2019-2020 academic year and new research projects will come pending results of this one.



Christopher Plummer, DO (Division of Maternal Fetal Medicine)

Dr. Plummer was the discussant for Dr. Hannah Valdes' RRD presentation: "Correlation Between Patient Understanding of Intrapartum Course and Satisfaction with Labor and Delivery Experience."



J. Gerald Quirk, MD, PhD (Division of Maternal Fetal Medicine)

Dr. Quirk has 3 IRB approved projects: "A Novel Approach to Interpretation of Fetal Heart Rate Signals," "Female Sterilization among High Risk Pregnancies: A Retrospective Analysis of Patient Characteristics, Mode, and Barriers" and "Non-Obstetrical Surgeries in Pregnancy: A Retrospective Review of Patient Encounter and Outcomes." He was co-PI on an NSF grant application: "SCH: INT: Toward disruptive transformations for improved medical decision-making during labor" and is the co-PI on a 5 year NIH R01 grant: "Rethinking Electronic Fetal Monitoring to Improve Perinatal Outcomes and Reduce Frequency of Operative Vaginal and Cesarean Deliveries." He was a co-author on "Gestational Diabetes Insipidus: From Presentation to Resolution" and "Computer-based intrapartum fetal monitoring and beyond: a review of the 2nd Workshop on Signal Processing and Monitoring in Labor" and on a conference paper: "Inference about Causality from Cardiotocography Signals using Gaussian Processes." Dr. Quirk was a co-inventor on the US patent issued in August: "Apparatus and method for feature extraction and classification of fetal heart rate."



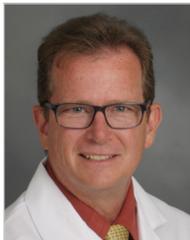
Elizabeth J. Roemer, MA (Research Division)

Ms. Roemer was a co-investigator on an NIH Transformative grant application: "Learning computational models: Applying technology to transform mental healthcare delivery, including improving outcomes and reaching the currently under- and un-served." She is currently a co-investigator on an NIH R01: "Rethinking Electronic Fetal Monitoring to Improve Perinatal Outcomes and Reduce Frequency of Operative Vaginal and Cesarean Deliveries."



Cara L. Staszewski, MD (Resident)

Dr. Staszewski presented her project: "Effects of Opioid Maintenance Therapy on the Placenta" at RRD. She was first author on "Does Gestational Age at Diagnosis of Vasa Previa Predict Outcomes?" and "What Factors Are Associated With Resolution of Vasa Previa Diagnosis?" both at presented at AIUM; "Medication-Assisted Treatment (MAT) in pregnancy: methadone and buprenorphine" presented at SMFM and the New York Obstetrical Society Residents and Fellows Research Day; and "Is opioid maintenance therapy (OMT) associated with placentomegaly and placental dysmaturity?" presented at SMFM the New York Perinatal Society. She was co-author on 6 additional meeting presentations: "Does antepartum vitamin D3 supplementation prevent preterm birth?" "What is the Optimal Maternal Vitamin D Level for the Prediction of Adverse Maternal Outcomes?" "What is the Optimal Cutoff for Maternal Serum Vitamin D Level to Predict Chorioamnionitis?" "Does Antepartum Vitamin D3 Supplementation Prevent Chorioamnionitis?" "Does Antepartum Vitamin D3 Supplementation Prevent Gestational Diabetes Mellitus?" and "Characteristics and Outcomes of Unexecuted Postpartum Sterilization in High Risk Low Income Obstetrical Patients."



James Stelling, MD (Division of Reproductive Endocrinology)

Dr. Stelling was a co-investigator on grant applications for an NIH R21: "The Prevalence of BRCA1/2 and Genes Associated with the BRCA1/2 Pathway Among Women with Diminished Ovarian Reserve" and an NIH R01: "Whole Exome Sequencing and Copy Number Variants in Young Women with Diminished Ovarian Reserve (DORSeq Study)." He was a co-author on 2 publications: "Reproductive ovarian testing and the alphabet soup of diagnoses: DOR, POI, POF, POR, and FOR" and "Review of patient decision-making factors and attitudes regarding preimplantation genetic diagnosis." He is a co-author on 3 manuscripts currently in preparation: "Preimplantation Genetic Testing for Aneuploidy: A Qualitative Study of Patient Decision-Making Experiences," "Preimplantation Genetic Testing: Psychometric Properties of Tools to Assess Patient Decisional Distress and Decisional Uncertainty" and "Navigating Preimplantation Genetic Testing Decisions in the Age of Social Media: A Qualitative Study."



Melissa Stafford, MD (Division of General Obstetrics & Gynecology)

Dr. Stafford has 1 IRB approved project, mentoring Dr. Lindsey Michel: "Incidence of postpartum hemorrhage pre and post pitocin protocol implementation."



Eva Swoboda, MD (Division of General Obstetrics & Gynecology)

Dr. Swoboda was a co-author on a book chapter: "Additional Skills Training" in The ultimate survival guide for new midwives. In addition, she is a key provider of gynecological health care at the community outreach activity: SB HOME Women's Health Day.



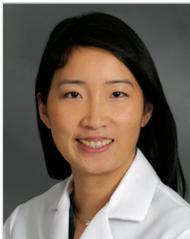
Vaibhavi Umesh, MD (Resident)

Dr. Umesh presented her poster: "Evaluating practice patterns since the introduction of late preterm antenatal steroids and adherence to guidelines" at RRD. She was first author on "Evaluating Practice Patterns of Late Preterm Antenatal Steroid Administration and Adherence to Recommendations" presented at ACOG, the Stony Brook Medicine Women in Medicine Research Day and the Nassau County OB-GYN Society Research Meeting (oral). In addition, she was co-author on "Do maternal and neonatal outcomes vary based on indications since the introduction of late preterm steroids?" at the Stony Brook Medicine Women in Medicine Research Day.



Hannah Valdes, MD (Resident)

Dr. Valdes presented her project: "Correlation Between Patient Understanding of Intrapartum Course and Satisfaction with Labor and Delivery Experience." Her PI was Dr. Diana Garretto.



Jenny Zhang, MD (Fellow, MIS)

Dr. Zhang was first author on an AAGL presentation: "Evaluation of an Enhanced Recovery Pathway for Minimally Invasive Gynecological Surgery" and co-author on: "Effect of Insurance Type on Patient Access to Outpatient Gynecologic Care" presented at ACOG. She presented her work: "Disparity in Access to Gynecologic Care in US Teaching Hospitals Based Upon Insurance Coverage" at RRD.

Publications 2018-2019

Stony Brook Medicine Ob/Gyn members are listed in bold.

Bishop EA, Java JJ, Moore KN, Spirtos NM, **Pearl ML**, Zivanovic O, Kushner DM, Backes F, Hamilton CA, Geller MA, Hurteau J. Surgical outcomes among elderly women with endometrial cancer treated by laparoscopic hysterectomy: a NRG/Gynecologic Oncology Group study. *American journal of obstetrics and gynecology*. 218(1):109-e1. <https://doi.org/10.1016/j.ajog.2017.09.026>. January 2019.

Bronson R. Ectopic pregnancy—still a challenge. *Fertility and Sterility*, 110(7):1265 - 1266. DOI: <https://doi.org/10.1016/j.fertnstert.2018.09.008>. December 2018.

Bronson R. My Mother's Incidentaloma. *Fam Med*. 2019;51(4):360-360. DOI: <https://doi.org/10.22454/FamMed.2019.701295>. April 2019.

Bronson R. Taking Sides. *Family medicine*. 2018;50(3):233. DOI: [10.22454/FamMed.2018.671436](https://doi.org/10.22454/FamMed.2018.671436) March 2018.

Cochrane E, Menzies A, Sweeney K, Burke W. Synchronous renal and para-aortic metastasis in a uterine serous carcinoma: A case review and clinical considerations. *Gynecologic oncology reports*. 28:12. DOI: [10.1016/j.gore.2019.01.009](https://doi.org/10.1016/j.gore.2019.01.009); May 2019.

Dinglas C, Chavez M, Vintzileos A. Resolution of intra-amniotic sludge after antibiotic administration in a patient with short cervix and recurrent mid-trimester loss. *American journal of obstetrics and gynecology*. 221(2):159. DOI: [org/10.1016/j.ajog.2019.01.003](https://doi.org/10.1016/j.ajog.2019.01.003); January 2019.

Dinglas C, Muscat J, Adams T, Peragallo-Dittko V, Vintzileos A, Heo HJ. Software-guided insulin dosing improves intrapartum glycemic management in women with diabetes mellitus. *American journal of obstetrics and gynecology*. 219(2):191-e1. DOI: <https://doi.org/10.1016/j.ajog.2018.05.003>; August 2018.

Dong H, Tulley S, Zhao Q, Cho L, Chen D, **Pearl ML, Chen WT**. The propensity of invasive circulating tumor cells (iCTCs) in metastatic progression and therapeutic responsiveness. *Cancer medicine*. 8:3864–3874. DOI: [10.1002/cam4.2218](https://doi.org/10.1002/cam4.2218) Epub May 2019.

Felix AS, Cohn DE, Brasky TM, Zaino R, Singh M, Mutch DG, Creasman WT, Thaker PH, Walker JL, Moore RG, Lele SB, Guntupalli SR, Downs LS, Nagel CI, Boggess JF, **Pearl ML**, Joffe OB, Deng W, Randall ME, Brinton LA. Receipt of adjuvant endometrial cancer treatment according to race: an NRG Oncology/Gynecologic Oncology Group 210 Study. *American Journal of Obstetrics and Gynecology*. 219(5):459e1–459e11, DOI: <https://doi.org/10.1016/j.ajog.2018.08.002>, November 2018.

Feng G, **Quirk JG**, Djurić PM. Inference about Causality from Cardiotocography Signals Using Gaussian Processes. *ICASSP 2019–2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, (pp. 2852–2856). DOI: [10.1109/ICASSP.2019.8683052](https://doi.org/10.1109/ICASSP.2019.8683052), May 2019.

Garretto D, Kim YK, Quadro L, Rhodas RR, Pimentel V, Crnosija NA, Nie L, Bernstein P, Tropper P, Neal-Perry GS. Vitamin A and β -carotene in pregnant and breastfeeding post-bariatric women in an urban population. *Journal of perinatal medicine*. 47(2):183-9. DOI: <https://doi.org/10.1515/jpm-2018-0142>, February 2019.

Garry DJ, Baker DA, Persad MD, Peresleni T, Kocis C, Demishev M. Progesterone effects on vaginal cytokines in women with a history of preterm birth. *PloS one*. 13(12):e0209346. DOI: <https://doi.org/10.1371/journal.pone.0209346> December 2018.

Georgieva A, Abry P, Chudáček V, Djurić PM, Frasch MG, Kok R, Lear CA, Lemmens SN, Nunes I, Papageorghiou AT, **Quirk GJ**. Computer-based intrapartum fetal monitoring and beyond: a review of the 2nd Workshop on Signal Processing and Monitoring in Labor (Oct 2017, Oxford UK). *Acta obstetrica et gynecologica Scandinavica*. DOI: <https://doi.org/10.1111/aogs.13639>; May 2019.

Publications

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Ibrahim SM, Nicoloro-SantaBarbara J, Auerbach MV, Rosenthal L, **Kocis C**, Busso CE, Lobel M. Pregnancy-specific coping and changes in emotional distress from mid-to late pregnancy. *Journal of reproductive and infant psychology*. 17:1-6. DOI: <https://doi.org/10.1080/02646838.2019.1578871>, February 2019.

Lian X, Adsumelli R, **Griffin TR**, Gan TJ. Clinical Updates in Women's Health Care Summary: Perioperative Pain Management: Primary and Preventive Care Review. *Obstetrics and gynecology*. 132(5):1321. DOI: 10.1097/AOG.0000000000002938; November 2018.

Lima F, Nie L, Yang J, Owens A, Dianati-Maleki N, **Avila C**, Stergiopoulos K. Postpartum Cardiovascular Outcomes Among Women With Heart Disease from A Nationwide Study. *The American journal of cardiology*. 123(12):2006-14. DOI: <https://doi.org/10.1016/j.amjcard.2019.03.012>, June 2019.

Ma G, Wang Y, Ahmed T, Zaslav AL, Hogan L, **Avila C**, Wada M, Salman H. Anti-CD19 chimeric antigen receptor targeting of CD19+ acute myeloid leukemia. *Leukemia research reports*. 9:42-4. DOI: 10.1016/j.lrr.2018.03.002. January 2018.

Owens A, Yang J, Nie L, Lima F, **Avila C**, Stergiopoulos K. Neonatal and maternal outcomes in pregnant women with cardiac disease. *Journal of the American Heart Association*. 7(21):e009395. DOI:10.1161/JAHA.118.009395. November 2018.

Pastore LM, Christianson MS, **Stelling J**, Kearns WG, Segars JH. Reproductive ovarian testing and the alphabet soup of diagnoses: DOR, POI, POF, POR, and FOR. *Journal of assisted reproduction and genetics*. 35(1):17-23. DOI: 10.1007/s10815-017-1058-4; January 2018.

Pastore LM, Christianson MS, McGuinness B, Vaught KC, Maher JY, Kearns WG. Does the FMR1 gene affect IVF success? *Reproductive BioMedicine Online*, 38(4): 560-569; DOI: <https://doi.org/10.1016/j.rbmo.2018.11.009>; April 2019.

Persad MD, Wu X, **Ou J**, **Quirk JG**, **Garry DJ**. Gestational Diabetes Insipidus: From Presentation to Resolution. *Journal of Reproductive Medicine*, 63(11-12):527-9. November 2018.

Stec MA, Arbour MW, **Hines HF**. Client-Centered Mobile Health Care Applications: Using the Mobile Application Rating Scale Instrument for Evidence-Based Evaluation. *Journal of midwifery & women's health*. DOI: 10.1111/jmwh.12941; May 2019.

Stergiopoulos K, Lima FV, **Avila C**. Premature Cardiac Disease and Death After Preterm Preeclampsia in Women Whose Infant Was Small for Gestational Age. *JAMA cardiology*. 3(7):664-5. DOI:10.1001/jamacardio.2018.1212; July 2018.

Swain JE, Ho SS, Fox H, **Garry D**, Brummelte S. Effects of opioids on the parental brain in health and disease. *Frontiers in neuroendocrinology*. 22:100766. DOI: [org/10.1016/j.yfrne.2019.100766](https://doi.org/10.1016/j.yfrne.2019.100766); May 2019.

Submitted manuscripts

Hong J, Kushner T, Dieterich D, **Garry D**, Marcos LA, Beneri C, Sperling R, Patel P. Reducing mother-to-child transmission of HCV: Is it attainable with a multidisciplinary approach? *Journal of Hepatology*. (in press)

Kertowidjojo E, Taha O, **Pearl M**, Batiste R, Kudelka A. A case of metastatic mixed trophoblastic tumor. *Eur J Gynaecol Oncol*. (in press)

Miller D, Mannel RS, Cohn D, Matsumoto T, Tewari KS, DiSilvestro P, **Pearl ML**, Argenta PA, Powell MA, Zweizig SL, Warshal DP, Hanjani P, Carney M, Cella D, Zaino R, Fleming G. Carboplatin and paclitaxel for advanced endometrial cancer: Final overall survival and adverse event analysis of a randomized, controlled open label phase 3 trial (NRG Oncology/GOG 0209) *Lancet*. (in review)

Pastore LM, Cordeiro-Mitchell CN, Rubin LR, Nicoloro-SantaBarbara J, Genoff-Garzon MC, Lobel M. Patients' Preimplantation Genetic Testing Decision-Making Experience: An Opinion on Related Psychological Frameworks. *Human Reproduction Open*. (in press)

Pastore LM, Rubin LR, Nicoloro-SantaBarbara J, Lobel M. Contributors to Patient Distress and Uncertainty About Preimplantation Genetic Testing Decision-Making: A Narrative Review and Psychological Framework. *HROpen* (in press)

Preis H, **Garry DJ**, **Herrera K**, **Garretto DJ**, Lobel M. Improving Assessment, Treatment, and Understanding of Pregnant Women with Opioid Use Disorder: The Importance of Life Context. *Women's Reproductive Health*. (in review)

Manuscripts in process

Klein SL, Deniz Kocas H, Rubin LR, Subramony S, Lobel M, Genoff Garzon M, **Stelling J**, **Pastore LM**. Preimplantation Genetic Testing for Aneuploidy: A Qualitative Study of Patient Decision-Making Experiences.

Mitchell C, **Pastore LM**, McGuinness B, Fine E, Christianson MS, Kearns WG. Navigating The Body Of Literature Assessing BRCA1/2 Mutations And Markers Of Ovarian Function: A Systematic Review And Meta-Analysis.

Pastore LM, Christianson M, Fine E, Cayton Vaught KC, Segars J, Kearns W. X Chromosome Next Generation Sequencing in Six Women With Pathologic Diminished Ovarian Reserve: Comparison of Prioritization Strategies

Pastore LM, Lobel M, Rubin LR, Nicoloro SantaBarbara J, Stelling J. Preimplantation Genetic Testing: Psychometric Properties of Tools to Assess Patient Decisional Distress and Decisional Uncertainty.

Rubin LR, **Pastore LM**, Subramony S, Lobel M, Stelling J. Navigating Preimplantation Genetic Testing Decisions in the Age of Social Media: A Qualitative Study.

Pearl ML, Liu CB, Tornos C, **Chen WT**. Correlation of lymphovascular space invasion and invasive circulating tumor cells in patients with epithelial ovarian cancer.

DiNobile C, **Burke W**, **Gossner G**, Kerodidjojo E, Tornos C, **Pearl ML**. Correlation of endometrial tumor DNA mismatch repair status and MELF-pattern invasion.

Rabbani AY, **Kim S**, **Gossner G**, **Burke W**, Sandoval S, **Pearl ML**. Clinical Outcome of Multidisciplinary Treatment of Vulvar Necrotizing Fasciitis.

Dayton SM, Kirschen GW, Blakey B, **Pearl ML**. Do patients undergoing surgery on a gynecologic oncology service need a preoperative type and screen: A single-center retrospective cohort study.

Patents

application

Griffin TR, Healy EJ, Ramakrishnan IV, Ashok VG. System and Method Associated with Determining Physician Attribution Related to In-Patient Care Using Prediction-Based Analysis. Publication number: 20190148007. Filed: January 10, 2019
Publication date: May 16, 2019.

granted

Shishir D, **Quirk JG**, Djurić PM. Apparatus and method for feature extraction and classification of fetal heart rate - US P Patent number: 10368755. Date of Patent: August 6, 2019.

Publications

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Book Chapter

Belkin J, **Findletar HF, Swoboda E**, Kitue L. Chapter: "Additional Skills Training" in The ultimate survival guide for new midwives. ed. Kitue L. 2019, ACNM. ISBN: 978-0-578-50017-1.

Abstracts: posters & talks

Acharyapota V, **Burke WM**, Ruiz MP, Sia T, Tergas AI, Clair CS, Wright JD, Hou JY. The utility of comprehensive genomic profiling in selection of actionable targeted therapy in recurrent or refractory epithelial ovarian, fallopian tube and peritoneal carcinoma. *Gynecologic Oncology*. 149(S1):183. DOI: 10.1016/j.ygyno.2018.04.416; June 2018. 49th Annual Meeting of the Society of Gynecologic Oncology, New Orleans, LA, March 2018.

Benner AT, **Pastore L**, Christianson MS, Segars JH, Dubey AK, Kearns WG. The design and validation to amplify and detect the CCG repeats of the fragile X FMR1 gene by polymerase chain reaction of amplified embryonic DNA followed by fragment sizing on an applied biosystems Seq studio genetic analyzer. *Fertility and Sterility*. 110(4):e423. DOI: <https://doi.org/10.1016/j.fertnstert.2018.07.1210>; ASRM, Denver, CO, September 2018.

Bernasko J, Salnave J, Sridhar S, Messina C, Combs A. 551: Does ACT between 30 and 34 weeks gestation reduce morbidity in late preterm/early term neonates? *American Journal of Obstetrics & Gynecology*. 220(1):S368. DOI: <https://doi.org/10.1016/j.ajog.2018.11.573>; 39th Annual Society of Maternal Fetal Medicine Pregnancy Meeting, Las Vegas, NV, February 2019.

Buckley A, Persad MD, Milone GF, Pardo C, Davilmar I, **Garretto DJ**. A Retrospective Look at Fetal Growth Restriction at St. Damien Hospital in Haiti: Neonatal Outcomes [3K]. *Obstetrics & Gynecology*. 133:118S. DOI: 10.1097/01.AOG.0000558856.76449.f9; ACOG Annual Clinical and Scientific Meeting, Nashville, TN, May 2019.

Buckley A, Persad MD, Milone GF, Pardo C, Davilmar I, **Garretto DJ**. An Evaluation of the Maternal and Neonatal Characteristics Associated With Preterm Birth in Haiti [24G]. *Obstetrics & Gynecology*. 133:80s DOI: 10.1097/01.AOG.0000558723.90392.2c; ACOG Annual Clinical and Scientific Meeting, Nashville, TN, May 2019.

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Davis J, Heiselman C, Hoffmann E, **Dinglas C**, Vintzileos AM, Heo HJ. Does 1st Trimester Hemoglobin A1c Predict Adverse Pregnancy Outcomes? [9E]. *Obstetrics & Gynecology*. 133:53S. DOI: 10.1097/01.AOG.0000559001.97048.d0; ACOG Annual Clinical and Scientific Meeting, Nashville, TN, May 2019.

Dinglas C, Cochrane E, Ram B, Akerman M, Heo HJ, Vintzileos AM. Utility of First Trimester Maternal Serum Alpha Fetoprotein to Predict Placental Ischemic Disease [18S]. *Obstetrics & Gynecology*. 133:207S. DOI: 10.1097/01.AOG.0000559470.16516.46; ACOG Annual Clinical and Scientific Meeting, Nashville, TN, May 2019.

Dinglas C, Afsar N, **Davis J, Kim S, Herrera K**, Chavez M. Is First Trimester Maternal Serum Alpha Fetoprotein Predictive of Adverse Pregnancy Outcomes? [30L]. *Obstetrics & Gynecology*. 133:136S-7S. DOI: 10.1097/01.AOG/01.AOG.0000559264.32642.aa; ACOG Annual Clinical and Scientific Meeting, Nashville, TN, May 2019; and Stony Brook Medicine Women in Medicine Research Day, Stony Brook, NY, March 2019.

Dinglas C, Umesh V, Heiselman C, Garretto D, Herrera K. Do maternal and neonatal outcomes vary based on indications since the introduction of late preterm steroids? Stony Brook Medicine Women in Medicine Research Day, Stony Brook, NY, March 2019.

Feng G, **Quirk JG**, Djurić PM. Inference about Causality from Cardiotocography Signals Using Gaussian Processes. In: ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) (pp. 2852-2856). Brighton England. IEEE. DOI: 10.1109/ICASSP.2019.8683052; May 2019.

Feng G, **Quirk JG**, Djurić PM. Supervised and unsupervised learning of fetal heart rate tracings with deep Gaussian processes. In: 2018 14th Symposium on Neural Networks and Applications (NEUREL) (pp. 1-6). IEEE. DOI: 10.1109/NEUREL.2018.8586992; November 2018.

Johnson C, Dagum C, **Persad M, Herrera K, Buckley A, Garretto D.** Does adjunctive cesarean bundle decrease the risk of maternal and neonatal outcomes? [24H]. *Obstetrics & Gynecology*. 133:90S-1S. DOI: 10.1097/01.AOG.0000558763.04747.4c; ACOG Annual Clinical and Scientific Meeting, Nashville, TN, May 2019; and Stony Brook Medicine Women in Medicine Research Day, Stony Brook, NY, March 2019.

Johnson C, Dagum C, **Persad MD, Herrera KM, Buckley A, Garretto DJ.** Does adjunctive azithromycin treatment at the time of cesarean delivery improve maternal and neonatal outcomes? [32]. *Obstetrics & Gynecology*. 133:103S. DOI: 10.1097/01.AOG.0000558809.17247.6a; ACOG Annual Clinical and Scientific Meeting, Nashville, TN, May 2019.

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