

Department of Obstetrics, Gynecology and Reproductive Medicine



DIVISION OF RESEARCH ANNUAL REPORT | 2021-2022

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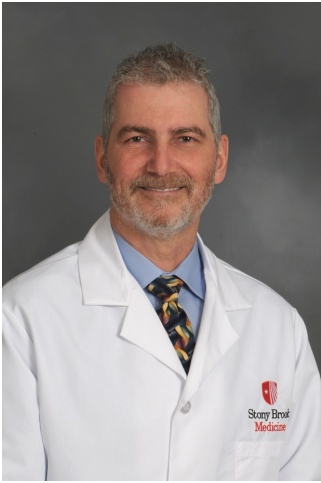
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Message from the Vice Chairman



Michael Pearl, MD, FACOG, FACS, FAAHPM

*Professor, Division of Gynecological Oncology
 Vice Chairman, Research and Faculty Development
 Director of Women's Cancer Services, Cancer Center
 Medical Director, Cancer Center Clinical Trials Office*

Vice-Chairman's Report 2020-2021

While the past year remained challenging, there were numerous reasons to feel optimistic with regards to our research program. With the wide-spread availability of safe and effective vaccines against SARS-CoV-2, coupled with the decrease in the incidence of COVID-19 and concomitant decrease in the number of hospitalized patients, the University's research programs were able to return to full activity. Effective June 24, 2021, Stony Brook's research operations transitioned to Research Phase 5, the final phase of the Restarting Research Plan (https://www.stonybrook.edu/commcms/restart-research/_pdf), which began in June 2020. This action followed the announcements by the Governor and the NY State Department of Health that relaxed certain restrictions because of significant progress in Covid-19 vaccinations and declines in Covid-19 cases.

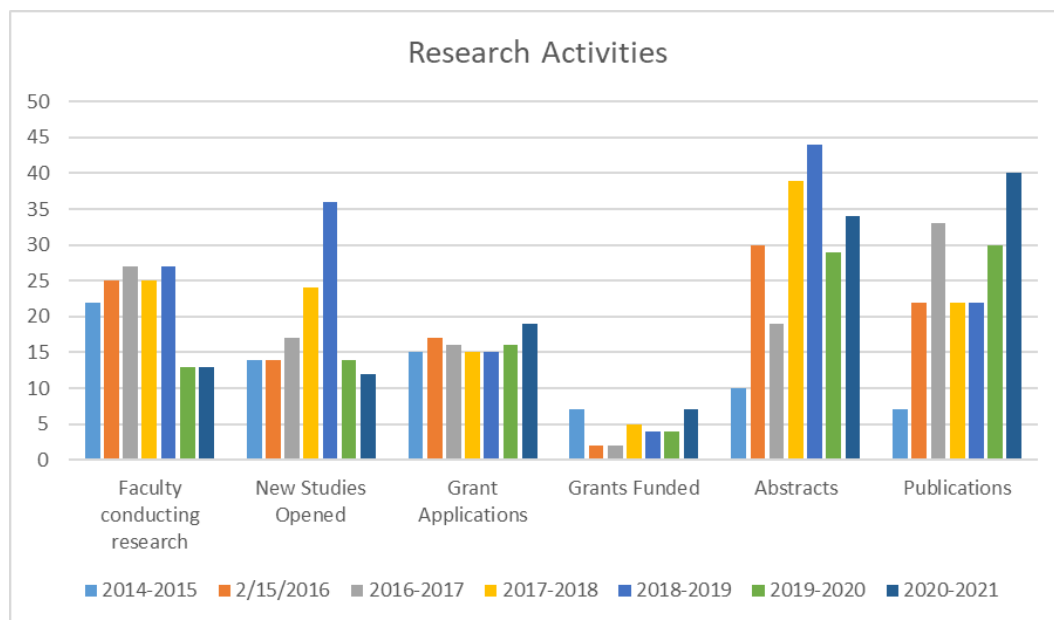
PHASE V - Normal Operation			
Phase description	Anticipated Activities	Preparation for next phase	External Condition and Expected Period
Return to normal operations <ul style="list-style-type: none"> Operation at full capacity without the need of social distancing. 100% of research workforce on campus			NY State lifts all restrictions

Under the leadership of our new President, Dr. Maurie McMinnis, Stony Brook University is "broadening its research mission, providing more support, creating opportunities for researchers beyond the STEM disciplines, and fostering more effective collaboration on our campuses and with partners in our community." (<https://www.stonybrook.edu/commcms/financial-sustainability/conversations>).

The Research and Innovation Task Force is focusing “on identifying new opportunities and areas for growth, more effective alignment of resources, infrastructure and new ways to encourage interdisciplinary collaboration and innovation.” (<https://www.stonybrook.edu/commcms/financial-sustainability/taskforces/research-and-innovation/index.php>).

Within our department, Dr. Griffin charged us with developing a strategic plan with a five-year goal to “Increase the productivity, visibility, and reputation of the department by facilitating a culture and infrastructure whereby research-focused endeavors are cultivated by all faculty, trainees and staff with collaboration across departments within the School of Medicine, within the University, and with national and international institutions”. The multi-disciplinary research committee, composed of myself, Richard Bronson, Joseph Chappelle, Megan Gorman, Cassandra Heiselman, Karen Kutner, Deidre Lee, Andre Plair, and Elizabeth Roemer, conducted a Strengths, Weaknesses, Opportunities and Threats (Swot) Analysis. Using the information from the SWOT analysis, the committee formulated a comprehensive strategic research plan for consideration by Dr. Griffin and the department.

As you can see from the data below, we remained productive with substantial and sustained increases in the number of submitted grant applications, abstracts presented and manuscripts published. We continue to focus on solutions, rather than bemoan the challenges. With the support of Stony Brook University and Stony Brook School of Medicine’s new leadership, the unwavering support of our chairman, Dr. Griffin, and the Division of Research’s staff, we remain optimistic about our research program.



Fiscal Year 2021-2022: Grant applications: 19 (12 as principal investigator, 7 in collaboration); Publications: 40 (additional 6 in press and 2 under review), Abstracts: 34, New studies opened: 12; Faculty conducting research: 13; Grants funded: 7 (one as the principal investigator, 3 through the Cancer Center and 3 as co-investigators with other departments)

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:

PROJECTS

- 13 different PIs have 38 ongoing CORIHS approved studies, 12 of them new this year.

GRANTS

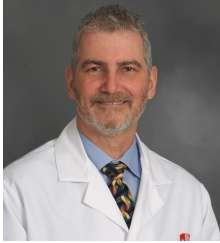
- Department faculty submitted 19 funding applications, 12 as PI and 7 in collaboration with others.
- The department currently has PIs participating in 16 actively funded studies (including 8 Cancer Center clinical trials).

PUBLICATIONS & PRESENTATIONS

Faculty, fellows and residents authored or were coauthors on:

- 40 peer-reviewed publications with an additional 6 in press and 2 in review
- 34 meeting abstracts
- 3 lectures
- 4 International presentations

Staff



Michael Pearl, MD | Vice-Chair for Research and Faculty Development

Dr. Michael Pearl is a Professor, Division of Gynecological Oncology; the Vice Chairman, ObGyn Research and Faculty Development; the Director of Women's Cancer Services, Cancer Center and the Medical Director, Cancer Center Clinical Trials Office. 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 | Associate Director of Research

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.



Deidre Lee, MHS | Senior Research Support Specialist

Deidre Lee provides support for faculty and residents in their research studies and coordinates 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 manages IRB submissions and ensures appropriate regulations are being followed throughout the course of studies. Additionally, she assists with building databases in REDCap, grant writing, chart reviews, and is responsible for managing undergraduate and medical student research assistants.



Affiliated Faculty

Lisa Pastore, PhD | Associate Professor ObGyn

Dr. Lisa Pastore 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.

Grants and Contracts

Grants Submitted

This year saw 19 applications: 6 with our Ob/Gyn faculty as PIs, 6 through the Cancer Center, and an additional 7 applications with Ob/ Gyn faculty as co-investigators or key persons.

With Ob/Gyn faculty as PIs:

- **May 2021: Dr. WILLIAM BURKE** (Gynecologic Oncology and Minimally Invasive Surgery) applied for a clinical trial: “RAQUEL (Randomized Trial Assessing Quinagolide Vaginal Ring for Endometriosis-Related Pain)” with Ferring Pharmaceuticals Inc. Co-Investigators include **Dr. JENNIFER BLABER, Dr. TODD GRIFFIN, Dr. SARA KIM, Dr. JULIE LIAN,** (all Minimally Invasive Surgery) **and Dr. YING LIU** (MIS Fellow).
- **April 2021: Dr. SIERRA WASHINGTON** (Global Medicine) and MIHER (Mozambique): applied for a 2021-2022 US Embassy Public Affairs Section Grant to support Resident travel from Mozambique to Stony Brook
- **November 2020: Dr. SIERRA WASHINGTON** (Global Medicine) applied to Karl Storz for funds to support: “Academic Collaboration for Advancing Health in Mozambique.”
- **October 2020: Dr. SIERRA WASHINGTON** (Global Medicine) submitted a Gates Foundation Grand Challenges Grant application: “Proposal for a Global Surgery and Reproductive Health Initiative in Mozambique.”
- **September 2020: Dr. SIERRA WASHINGTON** (Global Medicine) submitted an OVPR seed grant application: “Point of Care Ultrasound” with co-investigators **Dr. CASSANDRA HEISELMAN** (Maternal Fetal Medicine) and **Dr. CHRISTINE CONWAY** (General Obstetrics and Gynecology).
- **September 2020: Dr. CHIOMA NDUBISI** (General Obstetrics and Gynecology) submitted an OVPR seed grant application: “Cervical Preparation Before Second Trimester Abortion” with co-investigators **Dr. SIERRA WASHINGTON** (Global Health), **Dr. KIMBERLY HERRERA** (Maternal Fetal Medicine) and Dr. Sibone Mocumbi (Universidade Eduardo Mondlane, Mozambique).

At the Cancer Center:

- **May 2021: Dr. WILLIAM BURKE** (Gynecologic Oncology and Minimally Invasive Surgery) applied for a clinical trial: QPT00RE-005/GPG-3035: “A Phase 3, Double-Blind, Placebo-Controlled, Multicenter Clinical Study comparing Chemo-Immunotherapy (Paclitaxel-Carboplatin-Oregovomab) versus Chemotherapy (Paclitaxel-Carboplatin-Placebo) in Patients with Advanced Epithelial Ovarian, Fallopian Tube or Peritoneal Carcinoma” with OncoQuest Pharmaceuticals Inc. Co-Investigators include **Dr. MICHAEL PEARL** and **Dr. THEOFANO ORFANELLI** (both Gynecologic Oncology).
- **May 2021: Dr. THEOFANO ORFANELLI** (Gynecologic Oncology) applied for a clinical trial: NRG-GY022: “Assessment of Carboplatin Clearance Predictors: A PK Study on NCI-sponsored Clinical Trials or Standard of Care Treatments Using Carboplatin” sponsored by NCI via the NRG. **Dr. MICHAEL PEARL** (Gynecologic Oncology) is the co-investigator.
- **March 2021: Dr. THEOFANO ORFANELLI** (Gynecologic Oncology) applied for a clinical trial: “A Phase 3, Randomized, Double-Blind, Adaptive, Placebo/Paclitaxel-Controlled Study of AVB-S6-500 in Combination with Paclitaxel in Patients with Platinum-Resistant Recurrent Ovarian Cancer” with Aravive, Inc. Co-Investigators are **Dr.s MICHAEL PEARL** and **GABRIELLE GOSSNER,** and **Ms. MARLO DOMBROFF** (all Gynecologic Oncology)
- **August 2020: Dr. MICHAEL PEARL** (Gynecologic Oncology) applied for a 5-year Clinical Trial: NRG-GY019: “A Randomized Phase III, Two-Arm Trial of Paclitaxel/Carboplatin/Maintenance Letrozole Versus Letrozole Monotherapy in Patients with Stage II-IV, Primary Low-Grade Serous Carcinoma of the Ovary or Peritoneum” from NCI via the NRG. Co-Investigators are **Dr. WILLIAM BURKE** and **Dr. GABRIELLE GOSSNER** (both Gynecologic Oncology)
- **August 2020: Dr. MICHAEL PEARL** (Gynecologic Oncology) applied for a 5-year Clinical Trial: NRG-GY020: “A Phase III Randomized Trial of Radiation +/- MK-3475 (Pembrolizumab) for newly Diagnosed Early Stage High Intermediate Risk Mismatch Repair Deficient (dMMR) Endometrioid Endometrial Cancer” from NCI via the NRG. Co-Investigators are **Dr. WILLIAM BURKE** and **Dr. GABRIELLE GOSSNER** (both Gynecologic Oncology).

Grants and Contracts

With Ob/Gyn faculty as co-Investigators with another department:

- **June 2021:** *Dr. James Swain* (Department of Psychiatry) re-applied for an NIH K2: “Adaptations of Brain and Behavior to Opioids and Stress” with co-investigators **Dr. DAVID GARRY** (Maternal Fetal Medicine), *Dr. Helen Fox*, *Dr. Stephanie Brown*, *Dr. Richard Rosenthal*, *Dr. Joseph Schwartz* (all Department of Psychiatry) and *Dr. Xiang He* (Department of Radiology).
- **March 2021:** *Dr. Heidi Preis* (Department of Psychology, School of Arts and Sciences, SBU) submitted “The Stony Brook COVID-19 Pregnancy Experiences (SB-COPE) Study: Effects of stress and social determinants of health on maternal physical and mental health morbidities during the COVID-19 pandemic (aka)” as an NIH Urgent Competitive Revision (NOSI) for their previously awarded R21: “Evaluation and validation of a novel instrument to assess the psychosocial and drug history backgrounds of pregnant women with or without Opioid Use Disorder.” The co-investigators were: *Dr. Marci Lobel* (Department of Psychology, School of Arts and Sciences) and *Dr. Brittain Mahaffey* (Department of Psychiatry) with consultants **Dr. CASSANDRA HEISELMAN** (Maternal Fetal Medicine), *Dr. Evelyn Bromet* (Department of Psychiatry and Behavioral Health), and *Dr. Wei Zhu* (Department of Applied Mathematics and Statistics, College of Engineering and Applied Sciences).
- **March 2021:** *Dr. James Swain* (Department of Psychiatry) re-applied for an NIH R61/R33: “Postpartum Intervention for Mothers with Opioid Use Disorders - Brain-Behavior Mechanisms” with co-investigators **Dr. DAVID GARRY** (Maternal Fetal Medicine), *Dr. CHRISTINA KOCIS* (Midwifery), *Dr.s Richard Rosenthal*, *Joseph Schwartz* and *Shao-Hsuan Ho* (all Department of Psychiatry) and *Dr.s Kristin Bernard* and *Brady Nelson* (both Department of Psychology, School of Arts and Sciences).
- **November 2020:** *Dr. James Swain* (Department of Psychiatry) applied for an NIH K02 Independent Scientist Award: “Adaptations of Brain and Behavior to Opioids and Stress” with co-investigators **Dr. DAVID GARRY** (Maternal Fetal Medicine), *Dr. Helen Fox*, *Dr. Stephanie Brown*, *Dr. Richard Rosenthal*, *Dr. Joseph Schwartz* (all Department of Psychiatry) and *Dr. Xiang He* (Department of Radiology).
- **October 2020:** *Dr. Heidi Preis* (Department of Psychology, School of Arts and Sciences, SBU) submitted and NIH R01: “The Stony Brook COVID-19 Pregnancy Experiences (SB-COPE) Study: Effects of stress and social determinants of health on maternal physical and mental health morbidities during the COVID-19 pandemic.” The co-investigators were: *Dr. Marci Lobel* (Department of Psychology, School of Arts and Sciences) and *Dr. Brittain Mahaffey* (Department of Psychiatry) with consultants **Dr. CASSANDRA HEISELMAN** (Maternal Fetal Medicine), *Dr. Evelyn Bromet* (Department of Psychiatry and Behavioral Health), *Dr. Wei Zhu* (Department of Applied Mathematics and Statistics, College of Engineering and Applied Sciences) and *Dr. Susmita Pati* (Department of Pediatrics).
- **September 2020:** *Dr. Sima Mofakham* (Department of Neurosurgery) applied for an NIH R01 grant: “Data-driven computational models for risk and benefit assessment of anticoagulation in critically ill COVID-19 patients.” Co-Investigators are *Dr. Mohsen Bannazadeh*, *Dr. Isadora Botwinick*, *Dr. Nicos Labropoulos* and *Dr. Apostolos Tassiopoulos* (all Department of Surgery), *Dr. Petar Djuric* (Department of Electrical Engineering, School of Engineering), *Dr. Janos Hajagos* and *Dr. Joel Saltz* (both Department of Biomedical Informatics), *Dr. Charles Mikell* (Department of Neurosurgery) and **ELIZABETH ROEMER** (Research Division), as a Key Person.
- **September 2020:** *Dr. Annie Laurie Shroyer* (Department of Surgery) submitted a grant application: “The US COVID-19 Impact upon Risk-Adjusted Delivery Maternal-Fetal Clinical Outcomes and Resource Utilization” to the March of Dimes. **Dr. CECILIA AVILA** (Maternal Fetal Medicine) was Co-PI. The co-investigators included *Dr. Janos Hajagos* (Department of Biomedical Informatics) and *Dr. Jie Yang* (Department of Family, Population & Preventive Medicine).

Funded Projects

Members of the Ob/Gyn Department participate in 16 funded projects. These include new projects (7) that were initially funding in the current fiscal year (2020- 2021) as well as those (9) that were begun in previous fiscal years and are ongoing.

Newly (2020-21) funded accounts

During fiscal year 2020-21, we had 7 newly funded studies: 1 as the home department, 3 at the Cancer Center and 3 with Ob/Gyn co-Investigators funded through another department.

With Ob/Gyn as home department:

- **Dr. SIERRA WASHINGTON** was awarded the 2021 Fulbright Scholar Award to Mozambique and the 2021-2022 US Embassy Public Affairs Section Grant. These grants are designed to promote bi-directional academic exchange. The US Embassy grant will fund 5 Mozambican senior residents to visit the Stony Brook department of Ob/Gyn next academic year.

At the Cancer Center:

- **May 2021: Dr. THEOFANO ORFANELLI** (Gynecologic Oncology) began a clinical trial: “A Phase 3, Randomized, Double-Blind, Adaptive, Placebo/Paclitaxel-Controlled Study of AVB-S6-500 in Combination with Paclitaxel in Patients with Platinum-Resistant Recurrent Ovarian Cancer” with Aravive, Inc. Co-Investigators are **Dr.s MICHAEL PEARL** and **GABRIELLE GOSSNER**, and **Ms. MARLO DOMBROFF** (all Gynecologic Oncology).
- **August 2020: Dr. MICHAEL PEARL** (Gynecologic Oncology) had funded a 5-year Clinical Trial: NRG-GY019: “A Randomized Phase III, Two-Arm Trial of Paclitaxel/Carboplatin/Maintenance Letrozole Versus Letrozole Monotherapy in Patients with Stage II-IV, Primary Low-Grade Serous Carcinoma of the Ovary or Peritoneum” from NCI via the NRG. Co-Investigators are **Dr. WILLIAM BURKE** and **Dr. GABRIELLE GOSSNER** (both Gynecologic Oncology).
- **August 2020: Dr. MICHAEL PEARL** (Gynecologic Oncology) was awarded a 5-year Clinical Trial: NRG-GY020: “A Phase III Randomized Trial of Radiation +/- MK-3475 (Pembrolizumab) for newly Diagnosed Early Stage High Intermediate Risk Mismatch Repair Deficient (dMMR) Endometrioid Endometrial Cancer” from NCI via the NRG. Co-Investigators are **Dr. WILLIAM BURKE** and **Dr. GABRIELLE GOSSNER** (both Gynecologic Oncology).

With Ob/Gyn Faculty as co-Investigators with another Department:

- **October 2020: Dr. Marci Lobel** (Department of Psychology, School of Arts and Sciences) was awarded a Multidisciplinary Small Team Awards by the SUNY Research Seed Grant Program. “Harnessing Machine Learning to Assess Risk for Adverse Health Outcomes Among Pregnant Women” includes co-investigators *Dr. Petar Djurić* and *Vibha Mane* (both Department of Electrical Engineering, School of Engineering), *Dr. Brittain Mahaffey* (Department of Psychiatry), **Dr. CASSANDRA HEISELMAN** (Maternal Fetal Medicine) and **Dr. JOSEPH CHAPPELLE** (General Obstetrics and Gynecology).
- **October 2020: Dr. Petar Djurić** (Department of Electrical Engineering, School of Engineering) received an NSF grant application: “GCR: In search for the interactions that create consciousness” with Co-PIs: *Dr. Sima Mofakham* and *Dr. Charles Mikel III* (both Department of Neurosurgery) and **ELIZABETH ROEMER** (Research Division), as a Key Person.
- **September 2020: Dr. Heidi Preis** (Department of Psychology, School of Arts and Sciences) had an NIH R21: “Evaluation and validation of a novel instrument to assess the psychosocial and drug history backgrounds of pregnant women with or without Opioid Use Disorder” funded 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).

Funded Projects

Ongoing funded accounts

We have 9 ongoing studies that were initially funded in previous fiscal years: 5 with ObGyn as the home department (3 of them in the Cancer Center), and 4 where our faculty are collaborating with another department (2 of them in the Cancer Center).

With Ob/Gyn as home department:

- **March 2020 -March 2023:** PI: **Dr. DAVID GARRY** (Maternal Fetal Medicine) a Pfizer Pharmaceuticals Phase 3 clinical trial: “Randomized, Double- Or Observer-Blinded, Placebo-Controlled Trial to Evaluate the Efficacy and Safety of a Respiratory Syncytial Virus (RSV) Prefusion F Subunit Vaccine in Infants Born To Women Vaccinated During Pregnancy” with co-PI *Dr. Sharon Nachman* and co-Investigators *Dr.s Christy Beneri, Matthew Fisher, Andrew Handel and Saul Hymes* (all Department of Pediatrics).
- **May 2019 – March 2024:** PIs: **Dr. GERALD QUIRK** (Maternal Fetal Medicine) and *Dr. Petar Djurić* (Department of Electrical Engineering, School of Engineering) have 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), **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).

At the Cancer Center

- **June 2020 – May 2025:** **Dr. MICHAEL PEARL** (Gynecologic Oncology) NCICOVID Clinical Trial with co-investigators **Dr. WILLIAM BURKE** and **Dr. GABRIELLE GOSSNER** (both Gynecologic Oncology), *Dr. Lea Baer, Dr. Minsing Choi, Dr. Jules Cohen, Dr. Theodore Gabig, Dr. Bonnie Kiner-Strachan, Dr. Andrzej Kudelka, Dr. Fengshou Lan, Dr. Huda Salman, Dr. Michael Schuster, Dr. Amna Sher, Dr. Alison Stopeck, Dr. Shenhong Wu, and Dr. Yue Zhang* (all Department of Medicine Division of Hematology and Oncology), *Dr. Ellen Li*, (Department of Medicine, Division of Gastroenterology and Hepatology), *Dr. Alexander Stessin* (Radiation Oncology), and *Dr. Kartik Mani*, (Department of Biomedical Informatics).
- **November 2019 – October 2024:** **Dr. MICHAEL PEARL** (Gynecologic Oncology) has a 5 year Clinical Trial: NRG-GY018: “A Phase III Randomized, Placebo-Controlled Study of Pembrolizumab (MK-3475, NSC #776864) in Addition to Paclitaxel and Carboplatin for Measurable Stage III or IVA, Stage IVB or Recurrent Endometrial Cancer” from NCI via the NRG. Co-Investigators are **Dr. WILLIAM BURKE** and **Dr. GABRIELLE GOSSNER** (both Gynecologic Oncology) and *Dr. Andrzej Kudelka* (Department of Medicine, Oncology Division).
- **November 2018 – October 2023:** **Dr. WILLIAM BURKE** (Gynecologic Oncology) has a 5-year 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).

With Ob/Gyn Faculty as co-Investigators with another Department:

- **October 2019 – September 2024:** *Dr. James Swain* (Department of Psychiatry) received 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).
- **September 2018 – August 2023:** *Dr. Brittain Mahaffey* (Department of Psychiatry) a 5 year 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.

Funded Projects

At the Cancer Center

June 2019 – June 2024: *Dr. Andrzej Kudelka* (Department of Medicine, Oncology Division) has a 5-year 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).

February 2019 – October 2023: *Dr. Minsig Choi* (Department of Medicine, Oncology Division) has a 5 year 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).

Peer-Reviewed Publications

Ajirak M, **Heiselman C, Fuchs A, Heiligenstein M, Herrera K, Garretto D**, Djuric P. GP-LVM of categorical data from test-positive COVID-19 pregnant women. arXiv preprint arXiv:2011.03715. 2020 Nov 7.

Arora C, **Menzies A**, Han ES, Lee M, Lauer JK, Hur HC, Kim JH, Advincula AP. Comparing surgical experience and skill using a high-fidelity, total laparoscopic hysterectomy model. *Obstetrics & Gynecology*. 2020 Jul 1;136(1):97-108. doi:10.1097/AOG.0000000000003897.

Bronson R. Illumination. *Annals of Intern. Med.* April 2021;174 (4): 1751, PMID 2717870 <https://doi.org/10.7326/M20-1751>

Bronson R. His Service Dog. *JAMA*. June 2021;325(24):2508. doi:10.1001/jama.2021.7349

Cochrane E, Kim S, Kudelka A, Burke W. Invasive ductal breast carcinoma metastasis to the cervix: A case review and clinical correlation. *Gynecologic Oncology Reports*. 2020 Aug;33. PMCID: PMC7395300, PMID: 32789159, doi: 10.1016/j.gore.2020.100616

Cochrane E, Pando C, Kirschen G, **Soucier D, Fuchs A, Garry D**. Assisted reproductive technologies (ART) and placental abnormalities. *Journal of Perinatal Medicine*. 2020;48(8): 825-828. <https://doi.org/10.1515/jpm-2020-0141>

Cochrane E, Huber A, Jou C, Chappelle J. The effect of an oxytocin washout period on blood loss at cesarean delivery. *Journal of Perinatal Medicine*. 2020 Oct 1;48(8):799-802. <https://doi.org/10.1515/jpm-2020-0038>

DiNobile C, Fuchs A, Herrera K. A case of newly diagnosed autoimmune diabetes in pregnancy presenting after acute onset of diabetic ketoacidosis. *Case Reports in Perinatal Medicine*. 2021;10(1): 20200042. <https://doi.org/10.1515/crpm-2020-0042>

Duska LR, Filiaci VL, Walker JL, Holman LL, Hill EK, Moore RG, Ring KL, **Pearl ML**, Muller CY, Kushnir CL, Lankes HA. A Surgical Window Trial Evaluating Medroxyprogesterone Acetate with or without Entinostat in Patients with Endometrial Cancer and Validation of Biomarkers of Cellular Response. *Clinical Cancer Research*. 2021 May 15;27(10):2734-41.

Fader AN, Huh WK, Kesterson J, Pothuri B, Wethington S, Wright JD, Bakkum-Gamez JN, Soliman PT, Sinno AK, Leitao M, Martino MA, Karam A, Rossi E, Brown J, Blank S, **Burke W**, Goff B, Yamada D, Uppal S, Dowdy SC. When to operate, hesitate and reintegrate: society of gynecologic oncology surgical considerations during the COVID-19 pandemic. *Gynecologic oncology*. 2020 ug 1;158(2):236-43. <https://doi.org/10.1016/j.ygyno.2020.06.001>

Feng G, **Quirk JG, Heiselman C**, Djurić PM. Estimation of Consecutively Missed Samples in Fetal Heart Rate Recordings. In 2020 28th European Signal Processing Conference (EUSIPCO) 2021 Jan 18 (pp. 1080-1084). IEEE.

Peer-Reviewed Publications

Fuchs A, Harris L, Huber A, Heiligenstein M, Heiselman C, Herrera K, Garretto D. A case of severe SARS-CoV-2 infection with negative nasopharyngeal PCR in pregnancy. *Case Reports in Perinatal Medicine*. 2021 Jan 1;10(1). <https://doi.org/10.1515/crpm-2020-0075>

Hagemann IS, Deng W, Zaino RJ, Powell MA, Gunderson C, Cosgrove C, Mathews C, **Pearl ML**, Waggoner S, Ghebre R, Lele S. The presence of an endometrioid component does not alter the clinicopathologic profile or survival of patients with uterine serous cancer: A gynecologic oncology group (GOG/NRG) study of 934 women. *Gynecologic oncology*. 2021 Mar 1;160(3):660-8. doi: 10.1016/j.gyno.2020.12.040

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Peer-Reviewed Publications

Submitted / In review

DiNobile C, Kertowidjojo E, Burke W, Gossner G, Pearl ML. Correlation of DNA mismatch repair status and MELF-pattern invasion in endometrial endometrioid carcinoma. *Int J Gynecol Pathol*.

Huber A, Gruttadauria M, Kim S, Blaber J, & Burke W. Case Series: The novel use of robotic resection of cornual ectopic pregnancy. *Obstetrics and Gynecology*.

In Press

Duska L, Filiaci V, Walker J, Holman L, Hill E, Moore R, Ring K, **Pearl M**, Muller C, Kushnir C, Lankes H. A surgical window trial evaluating medroxyprogesterone acetate with or without entinostat in endometrial cancer and validation of biomarkers of cellular response: An NRG Oncology study. *Gynecologic Oncology*.

Gruttadauria M, Pollard J, Kim S, Lian X. Streptococcal toxic shock syndrome in the setting of recent gynecologic surgery: A case report. *Case reports in women's health*.

Hong J, Yang J, Zhang X, Su J, Tumati A, **Garry D**, Docimo S, Bates AT, Spaniolas K, Talamini MA, Pryor AD. Considering delay of cholecystectomy in the third trimester of pregnancy. *Surgical Endoscopy*.

Plair A, Bennington J, Williams JK, Parker-Autry C, Matthews CA, Badlani G. Regenerative medicine for anal incontinence: A review of regenerative therapies beyond cells. *International Urogynecology Journal*.

Rabbani AY, **Kim S, Gossner G, Burke W**, Sandoval S, Krajewski A, **Pearl ML**. Clinical outcome of multidisciplinary treatment of vulvar necrotizing fasciitis. *J Wound Care*.

Tumati A, Yang J, Zhang X, Su J, Ward CA, Hong J, **Garry D**, Spaniolas K, Talamini MA, Pryor AD. Pregnant patients requiring appendectomy: comparison between open and laparoscopic approaches in NY State. *Surgical Endoscopy*.

Meeting Presentations

Abuzeid O, Heiselman C, Fuchs A, LaChance J, Herrera K, Garry D, Abuzeid M. P-746 Obstetric outcomes of singleton birth after hysteroscopic division of septate uterus, *Human Reproduction*, Volume 36, Issue Supplement_1, July 2021, deab128.034, <https://doi.org/10.1093/humrep/deab128.034> . And virtual poster at ACOG 2021 Annual Clinical and Scientific Meeting, April 2021. <https://renaissance.stonybrookmedicine.edu/system/files/ACOG%20E%20Poster%20CUS%202021%20FINAL.pdf>

Abuzeid O, Heiligenstein M, Iovino N, Heiselman C, Fuchs A, Herrera K. Management of Evans syndrome in a pregnant patient with Preeclampsia and Covid-19: A case report. *ISPD 25th International Conference on Prenatal Diagnosis and Therapy*, June 2021.

Meeting Presentations

Abuzeid O, Heiselman C, Fuchs A, LaChance J, Herrera K, Garry D, Abuzeid M. Obstetric outcomes of singleton birth after hysteroscopic division of septate uterus. (Poster presentation) June 2021, 2021 ESHRE (European Society of Human Reproduction and Embryology) 37th Annual Meeting Presentations.

Abdelnour R, **Heiselman C**, Freeman E, George E, Kovach S, Chien E. 813 Access to tdap vaccine in outpatient offices and immunization uptake during pregnancy. *American Journal of Obstetrics & Gynecology*. 2021 Feb 1;224(2):S506.

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Fuchs A, Heiselman C, Peralta L, Gorman M, Umesh V, Abuzeid O, Garretto D, Herrera K, Hussain A, Garry D. 574 Fetal abdominal circumference as an early marker in prediction of small for gestational age newborns. *American Journal of Obstetrics & Gynecology*. 2021 Feb 1;224(2):S363. DOI:<https://doi.org/10.1016/j.ajog.2020.12.595>

Fuchs A, Heiselman C, Peralta L, Umesh V, Gorman M, Herrera K, Abuzeid O, Choi J, Garretto D, Garry D. Prediction of Cesarean Delivery by Umbilical Artery Dopplers in Growth Restricted Fetuses. Poster presentation. AIUM (American Institute of Ultrasound in Medicine) 2021 Annual Convention. April 2021.
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Meeting Presentations

Heiselman C, Fuchs A, Abuzeid O, Heiligenstein M, Iovino N, Huber A, Gorman M, Sha S, Herrera K, Garretto D, Nouredine LR. 1022 Opioid maintenance therapy prescription by obstetricians and postpartum visit compliance. *American Journal of Obstetrics & Gynecology*. 2021 Feb 1;224(2):S632-3. DOI:<https://doi.org/10.1016/j.ajog.2020.12.1047> and Poster Presentation. New York Obstetrical Society Residents and Fellows Research Day. April 13, 2021.

Heiselman C, Fuchs A, Abuzeid O, Gorman M, Iovino N, Sha S, Garretto D. Risk Factors Associated with Severe Neonatal Abstinence Syndrome Requiring Morphine (Poster presentation) 2021 ASAM (American Society of Addiction Medicine) Annual Conference April 2021. <https://renaissance.stonybrookmedicine.edu/system/files/ASAMSevereNASCJH3-19pdf.pdf>

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Huber A, Chappelle J, Lian X, Burke W. Clinical Responsibilities of Graduates from a Fellowship in Minimally Invasive Gynecologic Surgery (FMIGS). virtual poster at ACOG 2021 Annual Clinical and Scientific Meeting, April 2021. <https://renaissance.stonybrookmedicine.edu/system/files/ACOG%20FMIGS%20Poster%20.pdf>

Huber A, Shah L, Chappelle J. Quantitative blood loss compared to estimated blood loss at time of delivery. (Poster presentation) 2021 Society for Academic Specialists in Obstetrics and Gynecology (SASGOG) Meeting, April 2021,

Huber A, Hung M, Jeong R, Kim J. Exposure of Obstetric/Gynecology residents to Urogynecology specific procedures. (Poster Presentation) 2021 Society of Urodynamics & Female Pelvic Medicine & Urogenital Reconstruction (SUFU) Meeting, February 2021.

Hung M, **Huber A, Jeong R, Kim J.** Comparison of urogynecologic training among US Urology and Obstetrics/Gynecology residents. (Poster presentation) 2021 Society of Urodynamics & Female Pelvic Medicine & Urogenital Reconstruction (SUFU) Meeting, February 2021.

Kohli HK, **Heiselman C, Heiligenstein M, Fuchs A, Garretto D, Herrera K.** Patient Satisfaction with Obstetrics and Gynecology Telemedicine Services during the COVID-19 Pandemic. Poster Presentation. 48th Annual Latinx Medical Student Association Northeast Conference. January 2021. And Oral presentation. New York Perinatal Society 43rd Annual Scientific Meeting. April 21, 2021

Milone GF, Tiwari M, Mclnerney H, Franz B, Potkin K, Persad MD, Herrera K. 832 Does BMI influence the impact of an educational video module on gestational weight gain?. *American Journal of Obstetrics & Gynecology*. 2021 Feb 1;224(2):S517-8. DOI:<https://doi.org/10.1016/j.ajog.2020.12.855>

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Meeting Presentations

Milone GF, Tiwari M, Mclnerney H, Franz B, Potkin K, **Persad MD**, **Herrera K**. 825 Does use of a video module improve adherence to recommended gestational weight gain guidelines?. American Journal of Obstetrics & Gynecology. 2021 Feb 1;224(2):S514. DOI:<https://doi.org/10.1016/j.ajog.2020.12.848>

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Persad MD, **Staszewski C**, Khan F, Adeyeye AF, Franz B, Ly V, Day M, Varghese E, Shridevi P, Huettemann T, Kaplan C. 31 Does Vitamin D Prophylaxis decrease the incidence of hypertensive disorders of pregnancy?. American Journal of Obstetrics & Gynecology. 2021 Feb 1;224(2):S22-3. DOI:<https://doi.org/10.1016/j.ajog.2020.12.045>

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Persad MD, **Staszewski C**, Khan F, Adeyeye A, Day M, Ly V, Shridevi P, **Perseleni T**, **Herrera K**, **Garry D**, **Garretto D**. 143 Does vitamin d prophylaxis prevent adverse neonatal outcomes?. American Journal of Obstetrics & Gynecology. 2021 Feb 1;224(2):S98. DOI:<https://doi.org/10.1016/j.ajog.2020.12.165>

Persad MD, **Staszewski C**, Khan F, Adeyeye A, Franz B, Ly V, Day M, Varghese E, Shridevi P, **Perseleni T**, Huettemann T. 230 Does antepartum vitamin D3 supplementation prevent gestational diabetes mellitus?. American Journal of Obstetrics & Gynecology. 2021 Feb 1;224(2):S152. DOI:<https://doi.org/10.1016/j.ajog.2020.12.252>

Plair A, Smith W, Hines K, Schachar J, Parker-Autry C, Matthews CA. 02 Randomized trial of gluteal and posterior thigh pain from sacrospinous ligament fixation using an anchor-based versus suture-capturing device. American Journal of Obstetrics & Gynecology. 2021 Jun 1;224(6):S725-6. DOI:<https://doi.org/10.1016/j.ajog.2021.04.003>

Pollard J, **Chappelle J**. 279 Effects of diet counseling on gestational weight gain: a retrospective chart review. American Journal of Obstetrics & Gynecology. 2021 Feb 1;224(2):S183. DOI:<https://doi.org/10.1016/j.ajog.2020.12.301>

Yang L, **Heiselman C**, **Quirk JG**, Djurić PM. Class-imbalanced classifiers using ensembles of Gaussian processes and Gaussian process latent variable models. In: ICASSP 2021-2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2021 Jun 6 (pp. 3775-3779). IEEE. PMID: 34712104. DOI: 10.1109/ICASSP39728.2021.9414754

Yang L, **Heiselman C**, **Quirk JG**, Djurić PM. Identification of Uterine Contractions by An Ensemble of Gaussian Processes. In: ICASSP 2021-2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2021 Jun 6 (pp. 1020-1024). IEEE. PMID: 34712103. DOI: 10.1109/ICASSP39728.2021.9414041

Zhang J, **Pastore LM**, Rubin LR. Comparison of Patients' Ethical Perspectives of Preimplantation Embryo Genetic Testing for Aneuploidy (PGT-A) vs. Monogenic Disorders (PGT-M). Fertility and Sterility, Volume 114, Issue 3, e434 - e435 DOI:<https://doi.org/10.1016/j.fertnstert.2020.08.1260>

Lectures & Seminars

Huber A, Garduno E, Budnick L. Teaching seminar on pelvic anatomy for residents. American Urogynecologic Society Meeting 2020 (AUGS), April 2021.

Matthews CA, Greene KA, Richter HE, Ferrando CA, **Plair A.** AUGS at Home Workshop Series: Hysteropexy, An In-depth Tutorial of Transvaginal, Laparoscopic, and Robotic Approaches to Uterine Suspension Procedures. November 2020.

Plair, A. Frequent UTIs. SBUH ObGyn Resident Lecture. February 2021

International Presentations

Pearl ML. INTERNATIONAL TUMOR BOARD: Project ECHO. Multiple international sites (primarily Kenya and Ethiopia), International Gynecologic Oncology Society. Multiple dates.

Pearl ML. "Palliative care". International Gynecologic Cancer Society. February 2021.

Pearl ML. "Palliative care considerations when treating gynecologic cancers in a COVID-19 environment". International Gynecologic Cancer Society COVID-19 Virtual Tumor Board Series. April 2021.

Pearl ML. "Breaking bad news". International Gynecologic Cancer Society. May 2021.