

*34th Annual Dr. David Rothman Resident Research Day*  
*Department of Obstetrics and Gynecology*  
*Washington University School of Medicine*

**1:30 PM**  
**HOLDEN**  
**AUDITORIUM**  
**1<sup>ST</sup> FLOOR FLTC**

**APRIL 18<sup>TH</sup>**

**RECEPTION &**  
**POSTERS**  
**FOLLOWING**  
**FLTC HEARTH**  
**2<sup>ND</sup> FLOOR FLTC**

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**BASIC/TRANSLATIONAL RESEARCH**

**OVERVIEW OF THE CENTER FOR REPRODUCTIVE HEALTH SCIENCES**

*INDIRA MYSOREKAR, PHD*  
*PROFESSOR AND DIRECTOR, CREPHS*

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**Brooke Liang, BS**

2:00 **Co-Authors:** Ankur Kumar, Rajanish Giri, Indira Mysorekar

P.M. **Title:** A three-pronged mechanism of hydroxychloroquine against Zika virus vertical transmission

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**Jeremie Ferey, PhD**

2:15 **Co-Authors:** Anna L Boudoures, Michaela Reid, Andrea Drury, Suzanne Scheaffer, Zeel Modi,  
P.M. Attila Kovacs, Terri Pietka, Brian J DeBosch, Michael D Thompson, Abhinav Diwan, Kelle H Moley

**Title:** Maternal high-fat, high sucrose diet induces transgenerational cardiac mitochondrial dysfunction independent of maternal mitochondrial inheritance

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**Maggie Mullen, MD**

2:30 **Co-Authors:** Elena Lomonosova, Hollie Noia, Lei Guo, Lindsay M Kuroki, Andrea Hagemann,  
P.M. Carolyn McCourt, Premal H Thaker, David G Mutch, Matthew Powell, Katherine C Fuh

**Title:** Therapeutic AXL/GAS6 inhibition of tumor and stromal cells increases DNA damage and improves response to chemotherapy in ovarian cancer

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# CLINICAL TRANSLATIONAL RESEARCH

## OVERVIEW OF THE DIVISION OF CLINICAL RESEARCH

*GEORGE MACONES MD, MSCE*

*PROFESSOR AND HEAD, DEPARTMENT OF OB/GYN*

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### **Antonina Frolova, MD**

3:00 **Co-Authors:** Kevin Prifti, Jeremie Ferey, Michaela Reid, Kelle H Moley, Sarah England

P.M.

**Title:** Diet induced obesity alters baseline and oxytocin-stimulated uterine contractility in mice

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### **Josh Rosenbloom, MD**

3:15 **Co-Authors:** Adam Lewkowitz, Kathryn Lindley, D Michael Nelson, George Macones, Allison  
Cahill, Margaret Olsen, Molly J Stout

P.M.

**Title:** Expectant management of preeclampsia and future cardiovascular morbidity

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### **Carley Zeal, MD**

3:30 **Co-Authors:** Rachel Paul, Megan Dorsey, Mary Politi, Tessa Madden

P.M.

**Title:** A mixed-methods exploration of women's preferences for contraceptive education

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Department of Obstetrics and Gynecology  
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April 19, 2019*

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**7:45  
A.M. Continental Breakfast**

**Eric A. Strand, MD**

8:00 Program Director  
Obstetrics and Gynecology Residency Program

Introduction and Recognition of Dr. David Rothman

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**Moderator: Jonathan S. Hirshberg, MD**

**Rebecca J. Rogers, MD**

8:15 **Co-Authors:** Leping, Wan, MPH; Strand, Eric A. MD

**Title:** Communication after the residency interview: What impact does it have?

**Mentor(s):** Eric A. Strand, MD

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**Jessica G. Putman, MD**

8:30 **Co-Authors:** Melanie R. Meister MD,MSCI; Stacy M. Lenger MD, Jerry L. Lowder, MD, MSc

**Title:** Regional performance of apical support procedures at time of hysterectomy for benign indications

**Mentor(s):** Jerry L. Lowder, MD, MSc

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**Erin J. Bailey, MD, MS**

8:45 **Co-Authors:** Antonina Frolova, MD, Julia D. López, PhD, LCSW, Nandini Raghuraman, MD, MS, George Macones, MD, MSCE, and Alison Cahill, MD, MSCI

**Title:** Mild neonatal acidemia is associated with neonatal morbidity at term

**Mentor(s):** Antonina Frolova, MD, Alison G. Cahill, MD, MSCI

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**Kelsey L. Anderson, MD**

**Co-Authors:** Jimenez MD, K. R. Omurtag MD, E. S. Jungheim MD MSCI

9:00 **Title:** First Trimester Subchorionic Hemorrhage is not Associated with Adverse Pregnancy Outcomes after In Vitro Fertilization

**Mentor(s):** Emily S. Jungheim MD, MSCI

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**Stephanie A. Blankenship, MD**

**Co-Authors:** Brown, KE, Stout, MJ, Tuuli MG

9:15

**Title:** Antenatal Corticosteroids in Preterm Growth-Restricted Infants: A Systematic Review and Meta-Analysis

**Mentor(s):** Molly Stout, MD, Methodius Tuuli, MD

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**Allison A. Brubaker, MD**

**Co-Authors:** Melanie R. Meister, MD, MSCI; Siobhan Sutcliffe, PhD, ScM

9:30

**Title:** Effectiveness of botulinum toxin for treatment of pelvic floor myofascial pain in women: A systematic review and meta-analysis

**Mentor(s):** Jerry L. Lowder, MD, MSc

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**Sarah P. Huepenbecker, MD**

**Co-Authors:** Sarah E. Cusworth, MD, Lindsay M. Kuroki, MD, Patricia Lu, Christelle D.K. Samen, Candice Woolfolk, Rosa Deterding, Leping Wan, Daniel L. Helsten, MD, Michael Bottros, MD, David G. Mutch, MD, Matthew A. Powell, MD, Leslie S. Massad, MD, Premal H. Thaker, MD

9:45

**Title:** Continuous epidural infusion in gynecologic oncology patients undergoing exploratory laparotomy: the new standard for decreased postoperative pain and opioid use

**Mentor(s):** Premal H. Thaker, MD

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**BREAK 10:00 AM**

**Heather N. Lopez, MD**

**Co-Authors:** Kathryn A. Mills, MD; Heather N. Lopez, MD; Lulu Sun, MD, PhD; James Cripe, MD; Taylor Litz, MPH; Premal Thaker, MD, MS; Matthew Powell, MD; David Mutch, MD and Katherine C. Fuh, MD, PhD.

10:15

**Title:** Type II endometrial cancers with minimal, non-invasive residual disease on final pathology: What should we do next?

**Mentor(s):** Katherine C. Fuh, MD, PhD., Kathryn A. Mills, MD

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**Matthew A. Shanahan, MD**

**Co-Authors:** Candice Woolfolk, PhD, MPH; Nandini Raghuraman, MD, MS; Molly J. Stout, MD, MSCI; George A. Macones, MD, MSCE; Alison G. Cahill, MD, MSCI

10:30

**Title:** Prior prolonged first stage of labor is associated with prolonged first stage in subsequent pregnancies

**Mentor(s):** Alison G. Cahill, MD, MSCI

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**Stephanie H. Smith, MD**

**Co-Authors:** Kathryn A Mills, Brooke Liang, Rebecca Dick, Andrea Hagemann, Carolyn McCourt, Premal Thaker, Katherine Fuh, Matthew Powell, David Mutch, and Lindsay Kuroki

10:45

**Title:** Impact of compliance with a care bundle on acute kidney injury outcomes and hospital length of stay: A quality improvement initiative among gynecologic oncology inpatients

**Mentor(s):** Lindsay M. Kuroki, MD

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**Jessica A. Norton, MD**

**Co-Authors:** Candice Woolfolk, PhD, MPH; Ebony Carter, MD, MPH

11:00

**Title:** The Impact of Group Prenatal Care Compared to Individual Prenatal Care on Repeat Teen Pregnancy

**Mentor(s):** Ebony Carter, MD

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**Lauren D. Reschke, MD**

**Co-Authors:** Eskew, AM, Jungheim, ES

11:15

**Title:** Knowledge of long term health sequelae among women with polycystic ovary syndrome

**Mentor(s):** Emily Jungheim, MD

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**Adam K. Lewkowitz, MD**

**Co-Authors:** Joshua I Rosenbloom, MD, MPH; Matt Keller, MS, Julia D López, PhD, MPH, LCSW; George A Macones MD, MSCE; Margaret A Olsen, PhD, MPH; Alison G. Cahill MD, MSCI

11:30

**Title:** Association between Stillbirth and Postpartum Psychiatric Morbidity

**Mentor(s):** Margaret A Olsen and Alison G Cahill

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**Kathryn A. Mills, MD**

**Co-Authors:** Tanvi V. Joshi, MD, Lindsay WEST, MD, Michelle Kuznicki, MD, Laura Kent, MD, Alexis N. Hokenstad, MD, James C. Cripe, MD, Candice Woolfolk, PhD, Leigha Senter, Jamie N. Bakkum-Gamez, MD, Robert M. Wenham, MD, David E. Cohn, MD, Victoria Bae-Jump, MD, PhD, Premal H. Thaker, MD

11:45

**Title:** Does Hormonal Therapy after Risk Reducing Salpingo-oophorectomy Increase the Risk of Malignancy in Genetic Mutation Carriers?

**Mentor(s):** Premal Thaker, MD

*Break/Pick up Lunch*

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**George A. Macones, MD, MSCE – Introduction**

**Guest  
Speaker**

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*WILLIAM A. GROBMAN, M.D., M.B.A.*  
ARTHUR HALE CURTIS PROFESSOR  
*PROFESSOR OF OBSTETRICS AND GYNECOLOGY*  
*DIVISION OF MATERNAL-FETAL MEDICINE*  
*NORTHWESTERN MEDICINE*  
*FEINBERG SCHOOL OF MEDICINE*

**Closing  
Remarks**

**Eric A. Strand, MD**