



2022 ONCOFERTILITY CONFERENCE
May 2-4, 2022

Wyndham Grand Hotel, Pittsburgh, PA

Hosted by:



WELCOME TO THE 2022 ONCOFERTILITY CONFERENCE

On behalf of Magee-Womens Research Institute and Foundation and the Oncofertility Consortium, we welcome you to the 14th Annual Oncofertility Conference, **Vision 2030: A Roadmap for Oncofertility Research and Practices**. This year's meeting will help set the agenda for fertility preservation research and practice over the next decade. Over 225 attendees from 15 countries will participate in the 2022 Conference. This diverse group of interdisciplinary attendees from a variety of specialties and backgrounds will share their research and develop new oncofertility goals and initiatives for the upcoming year.

This year marks the first time the Oncofertility Conference is held outside the city of Chicago. We are thrilled to host an in-person conference, the first since 2019, at the Wyndham Grand Hotel located at the confluence of Pittsburgh's three rivers. Day 1 opens with concurrent meetings of the 12 Oncofertility Consortium scientific committees. These meetings are open to all registered conference attendees and will be in a hybrid in person/virtual format to enhance accessibility and participation by the international membership of each committee. The first day also features a half day of ECHO Training that includes psychosocial, biological, clinical and skill building modules to help oncology allied health professionals (nurses, physician assistants, social workers, and psychologists) communicate timely and relevant information about reproductive health to their adolescent and young adult (AYA) patients. Last, but certainly not least, the first day will feature a half day patient navigation workshop.

The second and third days will consist of traditional lectures with poster sessions and networking opportunities interspersed throughout the program. Be sure to maximize your time here and take this opportunity to network and meet someone new and learn something new! Stop by our exhibitor tables and advocacy tables as well. A special thanks to all of our supporters who make this conference possible.

We are delighted that this program has been so well received by a multidisciplinary community of researchers, physicians, other allied health professionals, patients and patient advocates. This illustrates that there is an appetite for oncofertility educational programs, and we encourage all attendees to bring their newfound knowledge back to their home institutions. Together we are training the next generation of leaders and increasing oncofertility awareness around the globe.

Thank you all for attending the 2022 Oncofertility Conference. You are the multidisciplinary community that we have all come to appreciate about the Oncofertility Conference. The 15th Annual Conference of the Oncofertility Consortium will be in the Spring of 2023. More information about date and venue will be coming soon.

Conference Co-Chairs



Kyle Orwig, PhD

Host, 14th Annual Oncofertility Conference

Director, UPMC Fertility Preservation Program

Director, UPMC Magee Center for Reproduction & Transplantation

Professor of Obstetrics, Gynecology & Reproductive Sciences

Magee-Womens Research Institute

University of Pittsburgh School of Medicine



Mahmoud Salama, MD PhD

Director of the Oncofertility Consortium

Assistant Professor of Obstetrics & Gynecology

Michigan State University

Program Committee

Leslie Appiah, MD

University of Colorado

Richard Leach, MD

Michigan State University

Monica Laronda, PhD

Northwestern University

Julie Rios, MD

University of Pittsburgh Medical Center

Stacy Whiteside, APRN, MS

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2022 ONCOFERTILITY CONFERENCE ORGANIZING COMMITTEE



Leslie Appiah, MD

Associate Professor of Obstetrics and Gynecology
Chief, Division of Academic Specialists in Obstetrics and Gynecology
Director, Fertility Preservation and Reproductive Late Effects Program
Department of Obstetrics and Gynecology
Pediatric and Adolescent Gynecology
Children's Hospital Colorado



Richard Leach, MD

Chair, Department of Obstetrics, Gynecology and Reproductive Biology
Michigan State University
Chair, Department of Women's Health Services
Henry Ford Medical Group



Monica Laronda, PhD

Director, Gonadal Tissue Processing, Fertility & Hormone Preservation & Restoration Program
Dept. of Endocrinology, Pediatric Surgery, Stanley Manne Children's Research Institute,
Ann & Robert H Lurie Children's Hospital of Chicago
Assistant Professor, Department of Pediatrics and Surgery, Feinberg School of Medicine
Northwestern University, Chicago, IL



Kyle Orwig, PhD

Professor of Obstetrics, Gynecology and Reproductive Medicine
Director, UPMC Magee Center for Reproduction and Transplantation
Director, Fertility Preservation Program of UPMC
Magee-Womens Research Institute
University of Pittsburgh School of Medicine



Julie Rios, MD

Associate Professor
Division Director, Reproductive Endocrinology & Infertility
Department of OB/GYN/RS
University of Pittsburgh School of Medicine
Magee-Womens Hospital of UPMC



Mahmoud Salama, MD, PhD

Assistant Professor of Obstetrics & Gynecology
Director, Oncofertility Consortium
Michigan State University



Stacy Whiteside, APRN, MS, CPNP-AC/ PC, CPON CPNP-AC

Nurse Practitioner/Fertility patient navigator
Fertility & Reproductive Health Program
Department of Hematology/Oncology/BMT
Nationwide Children's Hospital

KEYNOTE SPEAKER



TERESA K. WOODRUFF, PHD

Founder of the Oncofertility Consortium; Provost, Michigan State University

Teresa K. Woodruff, Ph.D. serves as Michigan State University's Provost and Executive Vice President for Academic Affairs. As the chief academic officer for Michigan State University, Provost Woodruff provides leadership for matters that affect academic programs, research, and outreach involving faculty, students, and staff. She oversees the quality of instruction and research at the University through collaborative work with deans, departmental chairs, and other vice presidents, addressing issues such as effective planning, good management, and program reviews.

Dr. Woodruff helps ensure the quality of the faculty by administering and monitoring procedures and criteria for faculty appointments and promotions, working conditions, and tenure. She monitors the quality of student learning by overseeing the curriculum while encouraging and coordinating initiatives in undergraduate education. She also coordinates recruiting and admissions for undergraduate and graduate programs. Additionally, she is responsible for overseeing academic and budgetary planning and priorities.

Prior to joining MSU as Provost in August of 2020, Dr. Woodruff served as the Dean and Associate Provost for Graduate Education in The Graduate School at Northwestern University. She was also the Thomas J. Watkins Professor of Obstetrics & Gynecology, the Vice Chair for Research and the Chief of the Division of Reproductive Science in Medicine in the Department of Obstetrics and Gynecology, Feinberg School of Medicine, as well as Professor of Molecular Biosciences in the Weinberg College of Arts and Sciences, and Professor of Biomedical Engineering in the McCormick School of Engineering. Additionally, she was the Director of the Center for Reproductive Science (CRS), Founder and Director of the Women's Health Research Institute (WHRI), and Founder and Director of the Oncofertility Consortium.

She is an internationally recognized expert in ovarian biology and, in 2006, coined the term "oncofertility" to describe the merging of two fields: oncology and fertility. Woodruff holds more than 10 U.S. Patents and was elected to the National Academy of Inventors (2017). She has been active in education not only at the professional level but also with high school students. To this end, she founded the Oncofertility Saturday Academy (OSA), one of several high school outreach programs that engages girls in basic and medical sciences. For this work, she was awarded the Presidential Award for Excellence in Science Mentoring in an Oval Office ceremony by President Obama (2011).

She holds two honorary degrees including one from the University of Birmingham, College of Medical, UK (2016) and from Bates College (2011). She is an elected member of the American Academy of Arts and Sciences (2020), National Academy of Medicine (2018), an elected fellow of American Institute of Medical and Biological Engineering (2017) and the American Association for the Advancement of Science (AAAS) (2005). Among her other honors are a Guggenheim Fellowship (2017), the Society for Endocrinology Transatlantic Medal (2017), a Leadership Award from the Endocrine Society (2017), the Mentor of the Year Award from the Society for the Study of Reproduction (2018). She is past-president of the Endocrine Society and championed the new NIH policy that mandates the use of females in fundamental research. She is civically active and is an elected member of The Economic Club of Chicago. She is a past member of the Adler Planetary of Chicago Board of Trustees, and served on the school board of the Chicago-based Young Women's Leadership Charter School.

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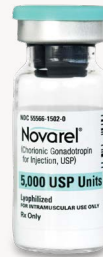
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Many Thanks to the Sponsors of the 2022 Oncofertility Consortium Conference who made this Conference possible.

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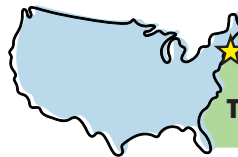
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AGENDA: DAY 1: Monday, May 2, 2022, 7:30 AM – 8:00 PM: Breakout Sessions

7:30 – 8:00 AM

Registration: Continental Breakfast and Networking (Kings 1 & 2)

8:00 AM – 5:00 PM

Breakout Sessions for Oncofertility Consortium Scientific Committees (Location Specific)

| Time | Kings 5 | Kings 4 | Ball Room 3 | Kings 3 |
|----------|---------------------------------|-----------------------------|-----------------------|----------------------------|
| 8-10 am | Male | ECHO Training | Healthcare Management | Non-Oncological Conditions |
| 10-12 pm | Pediatric (PIN) | ECHO Training | Closed Meeting | Closed Meeting |
| 12 -1 pm | Lunch & Networking (King 1 & 2) | | | |
| 1-3 pm | Surgery | Patient Navigation Workshop | Startups | Female |
| 3-5 pm | Practice Committee | Patient Navigation Workshop | Humanities | Closed Meeting |

6:00 – 8:00 PM

Reception at Dr. Kyle Orwig's House

(Board shuttle in front of the hotel prior to 5:30 pm to go to Kyle's house) (3026 Allman Place, Baden PA. 15005)

AGENDA: DAY 2: Tuesday, May 3, 2022, 7:30 AM – 7:00 PM, Ballroom 1

7:30 – 8:00 AM

REGISTRATION (CONFERENCE FOYER)

CONTINENTAL BREAKFAST/NETWORKING (KINGS 1 & 2)

8:00 – 8:15 AM

WELCOME: CONFERENCE CHAIRS (BALLROOM 1)

Richard Beigi, MD

President, UPMC Magee-Womens Hospital, USA

Kyle Orwig, PhD

Director, UPMC Magee Center for Reproduction and Transplantation, Magee-Womens Research Institute, University of Pittsburgh School of Medicine, USA

Mahmoud Salama MD, PhD

Director of the Oncofertility Consortium, Michigan State University, USA

8:15 – 9:00 AM

KEYNOTE SPEAKER (RECORDED)

Vision 2030: A Roadmap for Oncofertility Research and Practices

Teresa K. Woodruff, PhD

Provost & Executive Vice President for Academic Affairs, Michigan State University, USA

9:00 – 9:30 AM

NEXT GENERATION THERAPIES MORNING SESSION - MODERATOR: MONICA LARONDA, PHD

Reconstitution of gametogenesis using pluripotent stem cells

Katsuhiko Hayashi, PhD

Kyushu University, Japan

9:30 – 10:00 AM

Development and analysis of fertoprotective agents

So-Youn Kim, PhD

University of Nebraska, USA

10:00 – 10:30 AM

BREAK, POSTER SET-UP (KINGS 4)

10:30 – 11:00 AM

In vitro maturation of primordial follicles to yield eggs

Jing Xu, PhD

Oregon HSU, USA

11:00 – 11:30 AM

Preserve and protect - fertility preservation in young males

Rod Mitchell, PhD

University of Edinburgh, UK

11:30 AM – 12:00 PM

Ultrasound-guided rete testis sperm aspiration: a path to spermatogonial stem cell transplantation

Kathleen Hwang, MD

University of Pittsburgh School of Medicine, USA

AGENDA: DAY 2: Tuesday, May 3, 2022, 7:30 AM – 7:00 PM, Ballroom 1

12:00 – 1:00 PM

LUNCH/NETWORKING (KINGS 1 & 2), VIEW POSTERS (KINGS 4)

1:00 – 1:30 PM

ALLIED HEALTH PERSPECTIVE AFTERNOON SESSION – MODERATOR: STACY WHITESIDE, CPNP-AC, NATIONWIDE CHILDREN'S HOSPITAL, USA

Nursing Services, Past President of the Canadian Fertility & Andrology Society

Eileen McMahon, RN(EC), MN, PNC(C)

Mount Sinai Fertility, Canada

1:30 - 2:00 PM

Sexuality and sexual health among women with cancer

Kristin Carpenter, PhD

Psychologist, Director, Women's Behavioral Health, Women's Integrated Sexual Health (WISH) Program, Board of Directors of the Scientific Network on Female Sexual Health & Cancer, USA

2:00 – 2:45 PM

Tips and resources for starting or expanding a fertility preservation program; National and International perspectives

T. Brooke McClendon, PhD

Program Coordinator, UPMC, USA

Leslie Appiah, MD

University of Colorado Anschutz Medical Center, USA

Maria Bourlon, MD

Instituto Nacional de Ciencias Médicas y Nutrición, Mexico

Olivia Frias

Cincinnati Children's Hospital, USA

Amy Jutca

UPMC Children's Hospital of Pittsburgh, USA

2:45 – 3:15 PM

BREAK/VIEW POSTERS (KINGS 4)

3:15 – 3:45 PM

Survivorship Clinic and Research

Brooke Cherven, PhD, MPH, RN

Emory School of Medicine, USA

3:45 – 5:00 PM

Patient and Advocate Panel

Panelists: Christine Hanlon, Brandon Lischner, Alyssa Kelly

5:00 – 7:00 PM

RECEPTION, NETWORKING, VIEW POSTERS (KINGS 4 & 5)

WELCOME

Michael Annichine

CEO, Magee-Womens Research Institute & Foundation

AGENDA: DAY 3: Wednesday, May 4, 2022, 7:30 AM – 3:45 PM, Ballroom 1

7:30 – 8:00 AM

CONTINENTAL BREAKFAST/NETWORKING (KINGS 1 & 2)

8:00 – 8:30 AM

TRANSLATIONAL RESEARCH MORNING SESSION – LESLIE APPIAH, MD

Ovarian tissue oocytes in vitro maturation (OTO-IVM)

Michel De Vos, MD, PhD

Vrije Universiteit Brussel (VUB), Belgium

8:30 – 9:00 AM

Restoring Fertility in Males

Ellen Goosens, PhD

Vrije Universiteit Brussel (VUB), Belgium

9:00 – 10:00 AM

ORAL ABSTRACT PRESENTATIONS AND AWARDS

10:00 – 10:30 AM

BREAK/VIEW POSTERS (KINGS 4)

10:30 – 11:00 AM

REGULATORY ISSUES TRANSLATING RESEARCH TO CLINIC MORNING SESSION – MARY ZELINSKI, PHD

Regulatory oversight (FDA) of new and emerging REI technologies

David Ball, PhD

HCLD, Lab Director, Seattle Reproductive Medicine, USA

11:00 – 11:30 AM

Looking Ahead toward FDA Approval for Ovarian Tissue Cryopreservation and Transplantation in the U.S.

Mary Zelinski, PhD

Oregon National Primate Research Center

Oregon Health and Science University, USA

11:30 AM – 12:00 PM

Standardization and regulations for cryopreservation of reproductive tissues: Perspectives from Germany

Dunja-Maria Baston-Büst, PhD

Universitätsklinikum Düsseldorf, Germany

12:00 – 1:00 PM

LUNCH/NETWORKING (KINGS 1 & 2), VIEW POSTERS (KINGS 4)

Note: Posters will need to be removed between 12:00 and 2:00 PM

AGENDA: DAY 3: Wednesday, May 4, 2022, 7:30 AM – 3:45 PM, Ballroom 1

1:00 – 2:00 PM

CLINICAL ACCESS AFTERNOON SESSION – MODERATOR: ERIN ROWELL, MD

Ethical Debate: Patients with Poor Prognosis Panel

Julie Rios, MD

University of Pittsburgh Medical Center, USA

Jen Levine, MD

Columbia University, USA

Joseph Bertino, PhD, HEC-C

University of Pittsburgh Medical Center, USA

2:00 - 2:30 PM

Legislation of mandated insurance for fertility preservation

Kristin Smith

Northwestern University, USA

Joyce Reinecke, JD

Alliance for Fertility Preservation, USA

2:30 – 3:00 PM

Fertility in LGBTQAI+

Alicyn Simpson

UPMC Community Navigator for Gender Diverse Individuals, USA

3:00 – 3:30 PM

Fertility Preservation in DSD individuals

Emilie Johnson, MD

Lurie Children's Hospital, USA

3:30 - 3:45 PM

WRAP-UP

Julie Rios, MD

University of Pittsburgh Medical Center, USA

3:45PM

MEETING ADJOURNS



Henry Ford Health is a proud sponsor of the 14th Annual Conference of the Oncofertility Consortium.

We look forward to explore the "Vision 2030: A Roadmap for Oncofertility Research and Practices."

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2022 Oncofertility Conference Posters



Denotes winner of an abstract award

| Poster # | Title, Authors, Institutions - Presenting author underlined |
|----------|---|
| 1 | <i>Current Status and Issue of Japan Oncofertility Registry (JOFR)</i> Department of Obstetrics and Gynecology, Saitama Medical Center Saitama Medical University, Kawagoe, Japan Kosuke Shigematsu, Yasushi Takai |
| 2 | <i>Testicular Tissue Quality Evaluation after Long-Term Cryogenic Storage and Exposure to Gonadotoxic Treatments</i> <u>^{1,3}Kien T.D. Tran</u> , ^{2,3} Nagham Younis, ^{2,3} Amanda Colvin, ^{2,3} Hanna Valli-Pulaski, ^{2,3} T. Brooke McClendon, ^{2,3} Rachel E. Neelley, ^{2,3} Meena Sukhwani, ^{2,3} Tianjiao Chu, ^{1,2,3} Kyle E. Orwig ¹ Molecular Genetics and Development Biology Graduate Program, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA ² Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA ³ Magee-Womens Research Institute, Pittsburgh, PA, USA |
| 3 | <i>Fertility Preservation Discussions with Post-Pubertal Female Patients: Oncology Providers' Practice Behaviors and Barriers</i> <u>Caroline S. Dorfman</u> ¹ , Juliann M. Stalls, Rebecca A. Shelby, Kelly Acharya, Brittany Davidson, Cheyenne Corbett ¹ Duke University Medical Center |
| 4 | <i>Random-start progestin-primed ovarian stimulation for fertility preservation</i> <u>Haipeng Huang</u> ¹ , Yukiko Itaya, Kouki Samejima, Shunichiro Ichinose, Tatsuya Nartia, Shigetaka Matsunaga, Masahiro Saitoh, Yasushi Takai ¹ Department of Obstetrics & Gynecology, Saitama Medical Center, Saitama Medical University, Japan |
| 5 | <i>Diminished Ovarian Reserve in Adolescent Cancer Survivors Treated with Heavy Metal Chemotherapy</i> <u>Megan C. Pruett</u> ¹ , Rebecca Williamson Lewis, James L. Klosky, Karen E. Effinger, Brooke O. Cherven, Lillian R. Meacham ¹ Children's Healthcare of Atlanta, USA |
| 6 | <i>Impact of new criteria or gonadotoxic risk stratification on an oncology population in a pediatric hospital</i> <u>Alejandra Dumenigo, MS</u> ¹ , Olivia Frias, MSN ² , Karen Burns, MD, MS ² , Julie Rios, MD ³ ¹ University of Cincinnati College of Medicine, Cincinnati, OH ² Cincinnati Children's Hospital Medical Center, Cincinnati, OH ³ University of Pittsburgh School of Medicine, Pittsburgh, PA |
| 7 | <i>Comparative Analysis of Ovarian Follicles in Cortex from Twelve Human Donors</i> <u>Margaret Brunette</u> ¹ , Colleen Flanagan ¹ , Ariella Shikanov ^{1,2,3} ¹ Department of Biomedical Engineering, University of Michigan, Ann Arbor, MI ² Department of Obstetrics and Gynecology, University of Michigan, Ann Arbor, MI ³ Program in Cellular and Molecular Biology, University of Michigan, Ann Arbor, MI |
| 8 | <i>Chimeric antigen receptor (CAR) T-cells and Fertility Considerations</i> Jaqueline Y. Maher ¹ , John A. Ligon ^{2,3,*} , Abigail Fry ^{2,3} , Toni Foley ² , Sara Silbert ^{2,4} , Veronica Gomez-Lobo ¹ , Lori Wiener ² , Nirali N Shah ² ¹ Pediatric and Adolescent Gynecology, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH, Bethesda, MD ² Pediatric Oncology Branch, Center for Cancer Research, National Cancer Institute, National Institutes of Health (NIH), Bethesda, MD ³ Department of Pediatrics, Division of Hematology/Oncology, University of Florida College of Medicine, Gainesville, FL ⁴ Pediatric Oncology, Children's National Hospital, Washington DC, DC *Co-first Author Presenter at Oncofertility Conference |

| Poster # | Title, Authors, Institutions - Presenting author underlined |
|----------|---|
| 9 | <p><i>Fertility Preservation in Transgender Youth: A Case Series</i> <u>Supriya Behl, M.Sc.^a</u>, Vidhu B. Joshi, B.Sc., C.C.R.P.^b, David L. Walker, M.Sc.^c, Jolene Frederickson^c, Emily Root, R.N.^d, Zaraq Khan, M.B.B.S.^c, Candace F. Granberg, M.D.^e, Yuilan Zhao, M.D., Ph.D.^{c,f}, Asma Chattha, M.B.B.S.^d</p> <p>a. Children's Research Center, Department of Pediatric and Adolescent Medicine, Mayo Clinic, 200 1st St SW, Rochester, MN 55905 USA b. Department of Biochemistry and Molecular Biology, Mayo Clinic, Rochester MN, 200 1st ST SW, Rochester MC 55905 USA c. Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Mayo Clinic, 200 1st St Sw, Rochester MN 55905 USA d. Division of Pediatric and Adolescent Gynecology, Department of Pediatric and Adolescent Medicine, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA e. Department of Urology, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA f. Division of Clinical Care Laboratory Services, Department of Laboratory Medicine and Pathology, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA</p> |
| 10 | <p><i>Fertility Preservation as an Option for Children with Disorders of Sexual Development: A Case Series</i> <u>Supriya Behl, M.Sc.^a</u>, Vidhu B. Joshi, B.Sc., C.C.R.P.^b, David L. Walker, M.Sc.^c, Jolene Frederickson^c, Emily Root, R.N.^d, Zaraq Khan, M.B.B.S.^c, Candace F. Granberg, M.D.^e, Yuilan Zhao, M.D., Ph.D.^{c,f}, Asma Chattha, M.B.B.S.^d</p> <p>a. Children's Research Center, Department of Pediatric and Adolescent Medicine, Mayo Clinic, 200 1st St SW, Rochester, MN 55905 USA b. Department of Biochemistry and Molecular Biology, Mayo Clinic, Rochester MN, 200 1st ST SW, Rochester MC 55905 USA c. Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA d. Division of Pediatric and Adolescent Gynecology, Department of Pediatric and Adolescent Medicine, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA e. Department of Urology, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA f. Division of Clinical Care Laboratory Services, Department of Laboratory Medicine and Pathology, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA</p> |
| 11 | <p><i>Vitrification versus Slow-Freezing of human Ovarian Tissue: a Systematic Review and Meta-Analysis of Histological Outcomes</i> Supriya Behl, M.Sc.^a, Vidhu B. Joshi, B.Sc., C.C.R.P.^b, Nicholas B. Larson, Ph.D.^c, Maia C. Young^d, Muhammad Bilal, M.B.B.S.^e, David L. Walker, M.Sc.^f, Zaraq Khan, M.B.B.S.^f, Candace G. Granberg, M.D.^g, Asma Chattha, M.B.B.S.^e, Yuilan Zhao, M.D., Ph.D.^{f,h}</p> <p>a. Children's Research Center, Department of Pediatric and Adolescent Medicine, Mayo Clinic, 200 1st St SW, Rochester, MN 55905 USA b. Department of Biochemistry and Molecular Biology, Mayo Clinic, Rochester MN, 200 1st ST SW, Rochester MC 55905 USA c. Department of Quantitative Health Services, Mayo Clinic Rochester MN USA 55905 d. Mayo Clinic Alix School of Medicine, Rochester MN USA 55905 e. Division of Pediatric and Adolescent Gynecology, Department of Pediatric and Adolescent Medicine, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA f. Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA g. Department of Urology, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA h. Division of Clinical Core Laboratory Services, Department of Laboratory Medicine and Pathology, Mayo Clinic, 200 1st St SW, Rochester MN 55905 USA</p> |

2022 Oncofertility Conference Posters

| Poster # | Title, Authors, Institutions - Presenting author underlined |
|----------|---|
| 12 | <p><i>Ten-year anniversary of a pediatric Oncofertility program at a large urban city hospital: a tale of growth, expansion of care and continued innovation</i></p> <p>Tara R. Kennedy, BSA,^d <u>Erin E. Rowell, MD^{a,d}</u>, Monica Laronda, Ph.D.^{a,b,c}</p> <p>a. Fertility & Hormone Preservation & Restoration Program, Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL 60611</p> <p>b. Stanley Manne Children's Research Institute, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL 60611</p> <p>c. Department of Pediatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL 60611</p> <p>d. Department of Surgery, Feinberg School of Medicine, Northwestern University, Chicago, IL 60611</p> |
| 13 | <p><i>Artificial Intelligence-based Method for Automated Ovarian Follicle Counting and Classification on Digital Whole Slide Images</i></p> <p>Alena Arlova¹, Sarina Hanfling², Jacqueline Y. Maher², <u>Hannah Anvari³</u>, Hong Lou², Bohyun Yun², <u>Veronica Gomez-Lobo²</u>, G. Thomas Brown¹</p> <p>1. Artificial Intelligence Resource, National Cancer Institute, NIH, Bethesda, MD</p> <p>2. Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH, Bethesda, MD</p> <p>3. Northwestern University, Chicago, IL</p> |
| 14 | <p><i>Differences in Gonadal Care and Cryopreservation Practices for Intersex/Differences of Sex Development (DSD) Across Regions in the United States</i></p> <p><u>Aisha L Siebert¹</u>, Veronica Gomez-Lobo, Emilie K. Johnson, Leena Nahata, Kyle. E. Orwig, Louise C. Pyle, Selma F. Witchel, Courtney Finlayson, Monica M. Laronda</p> <p>1. Northwestern University, USA</p> |
| 15 | <p><i>Supporting unique cases of ovarian tumor within a comprehensive fertility preservation program</i></p> <p>Bak MJ^{b,f}, Farje D^{b,f}, Tsui EL^{a,b,c,d,e,f}, Lutz TB^{b,c,d,e}, Laronda MM^{a,b,c,d,e}, Rowell, EE^{b,c,d,e}</p> <p>a. Department of Endocrinology, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA</p> <p>b. Fertility & Hormone Preservation & Restoration Program, Department of Pediatric Surgery, Ann & Robert Lurie Children's Hospital of Chicago, Chicago, IL, USA</p> <p>c. Stanley Manne Children's Research Institute, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA</p> <p>d. Department of Surgery, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA</p> <p>e. Department of Pediatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA</p> <p>f. Feinberg School of Medicine, Northwestern University, Chicago, IL, USA</p> |
| 16 | <p><i>Anatomic Nomenclature of Human Ovarian Follicles: Recommendations of the NICHD-sponsored Ovarian Nomenclature 2021 Workshop</i></p> <p>Jaqueline Y. Maher, MD¹, <u>Mary B. Zelinski, PhD²</u>, Kutluk H. Oktay, MD, PhD³, Francesca E. Duncan, PhD⁴, James H. Segars, MD⁵, Maria E. Lujan, PhD⁶, Sarina Hanfling, BS¹, Bohyun Yun, MD¹, Lisa M. Halvorson, MD⁸, Kathleen E. O'Neill, MD, MTR⁹, <u>Veronica Gomez-Lobo, MD¹</u></p> <p>1. Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD</p> <p>2. Oregon Health & Science University, Beaverton, OR</p> <p>3. Yale School of Medicine, New Haven, CT</p> <p>4. Feinberg School of Medicine, Northwestern University, Chicago, IL</p> <p>5. Johns Hopkins University, Baltimore, MD</p> <p>6. Cornell University, Ithaca, NY</p> <p>8. Bayer U.S. Pharmaceuticals, Whippany, NJ</p> <p>9. University of Pennsylvania, Philadelphia, PA</p> |

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| 17 | <p><i>Characterizing the development timeline of pediatric ovaries: insights from ovarian tissue donated during fertility preservation</i></p> <p>a. <u>Elizabeth L. Tsui</u>^{a,b}, Samantha A. Ayala^c, Courtney J. Harris^d, Erin E. Rowell^d, Monica M. Laronda^{a,b} b. Stanley Manne Children's Research Institute, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, USA 60611 c. Department of Pediatrics, Feinberg School of Medicine, Northwestern University, Chicago, USA 60611 d. Department of Biological Sciences, University of Illinois at Chicago, Chicago, IL 60607 e. Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, USA 60611</p> |
| 18 | <p><i>Current Practices in the use of Anti-Mullerian Hormone for Surveillance of Ovarian Function in Childhood Cancer Survivors</i></p> <p>Kari L. Bjornard, MD, MPH¹, Allison Close, MD², Julie Sroga-Rios, MD³, Antoinette Anazodo, MD, PhD⁴, Jenn Levine, MD, MSW⁵, Christine Yu, MD⁶, Leena Nahata, MD⁷, Lillian Meacham, MD⁸</p> <ol style="list-style-type: none">1. Department of Pediatrics, Division of Hematology/Oncology, Indiana University School of Medicine, Indianapolis, IN, USA2. Division of Hematology/Oncology, Helen DeVos Children's Hospital, Michigan State University College of Human Medicine, Grand Rapids, MI, USA3. Department of OB/GYN/RS, Division of Reproductive Endocrinology and Infertility, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA; Magee-Women's Hospital of UPMC, Pittsburgh, PA, USA4. Kids Cancer Centre, Sydney Children's Hospital, Sydney, NSW, Australia5. Division of Pediatric Hematology and Oncology, Department of Pediatrics, Weill Cornell Medicine, New York, NY USA6. Department of Pediatric Medicine, St. Jude Children's Research Hospital, Memphis, TN, USA7. Division of Endocrinology, Nationwide Children's Hospital; Center for Biobehavioral Health, Abigail Wexner Research Institute, Columbus, OH, USA8. Children's Healthcare of Atlanta, Aflac Cancer Center Atlanta, GA; Emory University, Department of Pediatrics Division of Hematology/Oncology/BMT Atlanta, GA, USA |
| 19 | <p><i>Oncofertility in Social Media Platforms</i></p> <p><u>Nayeli A. Martinez-Ibarra, MD</u>, Estefania Montenegro Ramos, MD, Erika Adriana Martinez Castaneda, MD, Maria T. Burlon, MD, MS Department of Hematology and Oncology Instituto Nacional de Ceicias Medicas y Nutricion Salvador Zubiran, Mexico City, Mexico</p> |
| 20 | <p><i>The Impact of Hiring a Full-Time Fertility Navigator on Fertility-Related Care and Fertility Preservation at a Pediatric Institution</i></p> <p><u>Mariah L. Wright, MD</u>¹, Charleen I. Theroux, BA², Anna L. Olsavsky, PhD², Daniel DaJusta, MD³, Kate A. McCracken MD⁴, Jennifer Hansen-Moore, PhD^{5,6}, Nicholas D. Yeager, MD^{6,7}, Stacy Whiteside, APRN⁷, Anthony N. Audino, MD^{6,7}, Leena Nahata, MD^{2,6,8}</p> <ol style="list-style-type: none">1. Department of Pediatrics, Nationwide Children's Hospital, Columbus, OH2. The Abigail Wexner Research Institute, Center for Biobehavioral Health, Columbus, OH3. Center for Colorectal and Pelvic Reconstruction, Nationwide Children's Hospital, Columbus, OH4. Division of Pediatric and Adolescent Gynecology, Department of Obstetrics and Gynecology, Ohio State University, Columbus, Ohio5. Division of Pediatric Psychology and Neuropsychology, Nationwide Children's Hospital, Columbus, Ohio.6. Department of Pediatrics, The Ohio State University, Columbus, OH7. Division of Hematology/Oncology/BMT, Nationwide Children's Hospital, Columbus, OH8. Division of Endocrinology, Nationwide Children's Hospital, Columbus, OH |

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| 21 | <p><i>Gonadotoxic Risk Stratification in Leukemia/Lymphoma Frontline Phase III Treatment Protocols in the Children's Oncology Group (COG) from 2000-2021</i> <u>Allison Close MD, MS</u>¹, Kari Bjornard MD, MPH², Martine Madill BA³, Josuah Chavez PA⁴, Eric Chow MD, MPH⁵, Karen Burns MD, MS⁶, and Lillian Meacham MD⁷</p> <ol style="list-style-type: none">1. Division of Hematology/Oncology, Helen DeVos Children's Hospital, Michigan State University College of Human Medicine, Grand Rapids, MI, USA2. of Human Medicine, Grand Rapids, MI, USA3. Department of Pediatrics, Division of Hematology/Oncology, Indiana University School of Medicine, Indianapolis, IN, USA; Riley Hospital for Children at Indiana University Health, Indianapolis, IN, USA.4. Indianapolis, IN, USA; Riley Hospital for Children at Indiana University Health, Indianapolis, IN, USA.5. University of Pittsburgh School of Medicine, Pittsburgh, PA, USA6. Division of Hematology/Oncology, Helen DeVos Children's Hospital, Grand Rapids, MI, USA7. Fred Hutchinson Cancer Research Center, Seattle Children's Hospital, Seattle, WA, USA8. Cancer and Blood Diseases Institute, Cincinnati Children's Hospital Medical Center, Department of Pediatrics, University of Cincinnati School of Medicine, Cincinnati, OH, USA9. Pediatrics, University of Cincinnati School of Medicine, Cincinnati, OH, USA10. Children's Healthcare of Atlanta. Aflac Cancer Center Atlanta, GA; Emory University, Department of Pediatrics Division of Hematology/Oncology/BMT Atlanta, GA USA.11. Pediatrics Division of Hematology/Oncology/BMT Atlanta, GA USA. |
| 22 | <p><i>Quantitative morphokinetic parameters identify novel dynamics of oocyte in vitro maturation</i> Chanakarn Suebthawinkul^{1,2}, Elnur Babayev¹, Luhan Tracy Zhou¹, Hoi Chang Lee¹, <u>Francesca E. Duncan</u>¹</p> <ol style="list-style-type: none">1. Department of Obstetrics and Gynecology, Feinberg School of Medicine, Northwestern University, Chicago, IL2. Department of Obstetrics and Gynecology, Faculty of Medicine, Chulalongkorn University, Thailand |
| 23 | <p><i>In vitro spermatogenesis from immature testicular tissues of pediatric patients cryopreserved before gonadotoxic therapy: A step towards fertility preservation and restoration</i> <u>Naghm Younis</u>¹, Shtaywy Abdalla, Kyle E. Orwig</p> <ol style="list-style-type: none">1. Magee-Womens Research Institute, USA |
| 24 | <p><i>Sperm Banking In Post-Pubertal Males With Newly Diagnosed High-Risk ALL</i> Jessica L. Feuerstein DO, Pediatric Resident at Joseph M. Sanzari Children's Hospital, Hackensack University Medical Center, Hackensack NJ <u>Burton Appel MD</u>, Associate Director, Children's Cancer Institute, Joseph M. Sanzari Children's Hospital, Hackensack University Medical Center, Hackensack NJ</p> |
| 25 | <p><i>Integration of single-cell sequencing and spatial transcriptomics reveals dynamic transcriptional atlas in the adult human ovary</i> Andrea S.K. Jones¹, D. Ford Hannum², Nicole D. Ulrich³, Yu-chi Shen⁴, Qianyi Ma^{2,4}, Jordan H. Machlin^{1,5}, Vasantha Padmanabhan^{3,6,7}, Erica E. Marsh³, Sue Hammoud^{3,4,5,8}, Jun Z. Li^{2,4}, and Ariella Shikanov^{1,3,5}</p> <ol style="list-style-type: none">1. Department of Biomedical Engineering, University of Michigan2. Department of Computational Medicine and Bioinformatics, University of Michigan3. Department of Obstetrics and Gynecology, University of Michigan4. Department of Human Genetics, University of Michigan5. Cellular and Molecular Biology Program6. University of Michigan Department of Pediatrics and Communicable Diseases7. Department of Molecular and Integrative Physiology, University of Michigan8. Department of Urology, University of Michigan, Ann Arbor, MI |
| 26 | <p><i>Quality of Ovarian Fertility Preservation: A Cohort Study comparing Cautery to LigaSure™ Harvest</i> <u>Alyssa D. Brown B.S.</u>^a, Stephanie F. Polites M.D. M.P.H.^b, Christopher Moir M.D.^b, D Dean Potter M.D.^b, Michael B. Ishitani M.D.^b, Asma Chattha M.B.B.S.^c, Zaraq Khan M.B.B.S.^c, Denise B. Klinkner M.D. M.Ed.^b</p> <p>Affiliations:</p> <ol style="list-style-type: none">a Department of Physiology and Biomedical Engineering, Mayo Clinic, Rochester, MNb Department of Pediatric Surgery, Mayo Clinic College of Medicine, Rochester, MNc Department of Pediatric Gynecology, Mayo Clinic College of Medicine, Rochester, MN |

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| 27 | <p><i>Microsurgical testicular sperm extraction in a patient with Klinefelter's syndrome</i> Allison Himes¹, Stefanie Thomas, MD¹, Seth Rotz, MD¹, Scott Lundy, MD², Sarah C. Vij, MD² 1. Cleveland Clinic Children's Hospital, Cleveland, OH 2. Cleveland Clinic Glickman Urological Institute, Cleveland, OH</p> |
| 28 | <p><i>Testicular Tissue Cryopreservation for pre-pubertal or azoospermic males undergoing gonadotoxic treatment at Cleveland Clinic Children's Hospital</i> <u>Allison Himes</u>¹, Audrey Rhee, MD², Sajal Gupta, MD², Rakesh Sharma, PhD², Ashok Agarwal, PhD², Scott Lundy, MD², Stefanie Thomas, MD¹, Seth Rotz, MD¹, Sarah C. Vij, MD² 1. Cleveland Clinic Children's Hospital, Cleveland, OH 2. Cleveland Clinic Glickman Urological Institute, Cleveland, OH</p> |
| 29 | <p><i>Three Dimensional Description of the Ovary: Recommendations of the NICHD-sponsored Ovarian Nomenclature 2021 Workshop</i> Kathleen E O'NEILL, MD, MTR¹, Jacqueline Y MAHER, MD², Monica M LARONDA, PhD³, Francesca E DUNCAN, PhD³, Richard D LEDUC, PhD⁴, Marla E LUJAN, PhD⁵, Kutluk H OKTAY, MD, PhD⁶, Alison M POUCH¹, PhD, James H SEGARS, MD⁷, Elizabeth TSUI³, Mary B ZELINSKI, PhD⁸, Lisa M HALVORSON, MD⁹, Veronica GOMEZ-LOBO, MD² 1. University of Pennsylvania, Philadelphia, PA 2. Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD 3. Feinberg School of Medicine, Northwestern University, Chicago, IL 4. Northwestern University, Evanston, IL 5. Cornell University, Ithaca, NY 6. Yale School of Medicine, New Haven, CT 7. Johns Hopkins University, Baltimore, MD 8. Oregon Health & Science University, Beaverton, OR 9. Bayer U.S. Pharmaceuticals, Whippany, NJ Supported by NIH Funding Z1A HD008985 Corresponding author: Veronica Gomez-Lobo, MD, NIHBC 10 - Clinical Center BG RM 8N248B, 10 Center Drive. Bethesda, MD 20892</p> |
| 30 | <p><i>Establishing a Regional Referral Program for Fertility Preservation</i> <u>Foust E</u>¹, Fought AJ², Varela A², Kelly H¹, Hampanda K¹, Appiah L¹ Department of Obstetrics and Gynecology, CU School of Medicine, Anschutz Medical Campus¹, Center for Innovative Design & Analysis, Anschutz Medical Campus and Colorado School of Public Health²</p> |
| 31 | <p><i>Implementing A National Fertility Preservation and Reproductive Late Effects Database to Improve Outcomes</i> <u>Fought AJ</u>¹, Childress K², Dwiggin M³, Foust E¹, Gomez-Lobo V⁴, Hoefgen H⁵, Nahata L⁶, Meacham L⁷, Moravek M⁸, Appiah L¹ University of Colorado, Anschutz Medical Campus¹, Emory University², Norton Hospital³, National Institute of Health⁴, Washington University St Louis⁵, Nationwide Children's Hospital⁶, Children's Hospital of Atlanta⁷, University of Michigan⁸</p> |
| 32 | <p><i>Sperm recovery from testicular tissue of mice 24 hours after removal</i> <u>Amanda M Colvin Zielen</u>¹, Danyale Brazos¹, Yi Sheng², and Kyle E Orwig^{1,2} 1. UPMC Magee Center for Reproduction and Transplantation, Pittsburgh Pennsylvania, USA 2. Department of Obstetrics, Gynecology, and Reproductive Sciences, Magee-Womens Research Institute, University of Pittsburgh, Pittsburgh Pennsylvania, USA</p> |

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|  33 | <p><i>A 3D in vitro follicle growth system preserves molecular signatures of gonadotropin-dependent folliculogenesis</i> Jiyang Zhang¹, Yingzheng Wang¹, Daniela D Russo^{2,3,4}, Qiang Zhang⁵, Alex K. Shalek^{2,3,4,6}, Brittany Goods⁷, Shuo Xiao¹</p> <ol style="list-style-type: none">1. Department of Pharmacology and Toxicology, Ernest Mario School of Pharmacy, Environmental and Occupational Health Sciences Institute (EOHSI), Rutgers University, Piscataway, NJ 08854, USA2. Ragon Institute of MGH, MIT and Harvard, Cambridge, MA 02139, USA3. Department of Chemistry and Institute for Medical Engineering & Science, Massachusetts Institute of Technology4. Broad Institute, Harvard University & Massachusetts Institute of Technology5. Gangarosa Department of Environmental Health, Rollins School of Public Health, Emory University, Atlanta, GA 30322, USA6. Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology;⁷ Thayer School of Engineering, Dartmouth College, Hanover, NH 03755, USA |
| 34 | <p><i>Survey Development to Assess Acceptability among Patients who Elected Tissue Cryopreservation</i> <u>Kelly H</u>¹, Fought AJ², Varela A², Hampanda K¹, Foust E¹, Appiah A¹</p> <p>Department of Obstetrics and Gynecology, CU School of Medicine, Anschutz Medical Campus¹, Center for Innovative Design & Analysis, Anschutz Medical Campus and Colorado School of Public Health²</p> |
| 35 | <p><i>Incidental Diagnosis of Metastatic Adrenal Carcinoma During Pregnancy with Non-invasive Prenatal Testing: Role of Fertility Preservation Counseling.</i> <u>Eniola R. Ibiroga MBBS</u>^{1,2}, Jessica Garcia de Paredes MD^{1,2}, Sarah Mattson MD^{1,2}, Michael Tsimis MD^{1,2,3}, Vivian Romero MD^{1,2,3}, Marcos Cordoba MD^{1,2,3}, Mili Thakur MD^{1,2,4}.</p> <ol style="list-style-type: none">1. Department of Obstetrics, Gynecology and Women's Health, Spectrum Health, Grand Rapids, MI, USA2. Department of Obstetrics, Gynecology and Reproductive Biology, College of Human Medicine, Michigan State University, Grand Rapids, MI, USA3. Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Women's Health, Spectrum Health Medical Group, Grand Rapids, MI, USA4. Reproductive Genomics Program, The Fertility Center, Grand Rapids, MI, USA |
| 36 | <p><i>Oncofertility Registries Around The Globe: An Ongoing Survey</i> Noelle E. Ozimek¹, Mahmoud Salama², Teresa K. Woodruff²</p> <ol style="list-style-type: none">1. Brigham and Women's Hospital, Harvard Medical School, 25 Shattuck Street, Boston, MA 02115, USA.2. Oncofertility Consortium, Michigan State University, 965 Wilson Road, Room A626B, East Lansing, MI 48824-1316, USA. |
| 37 | <p><i>A Paradigm Shift: Redefining Success of Fertility Counseling in Male Pediatric, Adolescent and Young Adult Oncology</i> <u>Kathryn Tomlinson BSN RN</u>¹, Kathryn Robbins APNP², Julie Nichols BSN RN¹, Deb Schmidt APNP¹, Peter N Dietrich MD³, Rachel Phelan MD MPH², Jonathan S Ellison MD⁴, Jay Sandlow MD³, <u>Kerri Beckett MD,MS</u>²</p> <ol style="list-style-type: none">1. Division of Pediatric Hematology/Oncology, Children's Wisconsin, Milwaukee, WI2. Division of Pediatric Hematology/Oncology, Department of Pediatrics, Medical College of Wisconsin, Milwaukee, WI3. Department of Urology, Medical College of Wisconsin, Milwaukee, WI4. Division of Pediatric Urology, Department of Urology, Medical College of Wisconsin, Milwaukee, WI |

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- 38** *International policies on posthumous reproduction: a cross-sectional study*
Amani Sampson BA¹, Mahmoud Salama MD², Morgan Lawrence³, Calder Hollond BA⁴, Laura McLean BS⁵, Arthur Caplan PhD¹, Kara Goldman MD⁶, Gwendolyn P. Quinn PhD¹
1. NYU Grossman School of Medicine
2. Michigan State University School of Medicine
3. Barnard College
4. Pomona College
5. University of South Florida Morsani College of Medicine
6. Northwestern Feinberg School of Medicine
-
- 39** *Exploring influences on adolescent and young adult males diagnosed with cancer and the decision to bank sperm: A review of the literature*
Taryn Sandheinrich, DNP, RN, FNP-C^{1,2,3}; Jo-Ana Chase, PhD, APRN-BC¹; Jane Armer, PhD, RN, FAAN¹
1. Washington University, St. Louis, Missouri
2. Siteman Kids at St. Louis Children's Hospital, St. Louis, Missouri
3. Sinclair School of Nursing, University of Missouri, Columbia, Missouri
-



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Oncofertility Consortium
Michigan State University
Department of Obstetrics, Gynecology, and Reproductive Biology
965 Wilson Road, Room A626B
East Lansing, MI 48824-1316, USA

Phone: +1 (517) 884 6434
Email: oncofert@msu.edu
Web: <https://oncofertility.msu.edu/>