All Congress attendees are invited to join us for the ASRM President’s Gala benefiting the ASRM Research Institute during ASRM’s 2021 Scientific Congress & Expo,

All Congress attendees are invited to a festive evening of fine dining.

Sunday, October 17, 2021
6:00 p.m.
Hilton, Baltimore - Inner Harbor

Black tie optional.
Tickets are $500 per person up to six individuals. Purchase your ticket at www.asrmcongress.org when you register for the Congress. For larger groups, reserved tables, and sponsorship contact Brynne MacCann at bmaccann@asrm.org.

All proceeds will benefit the ASRM Research Institute.
OUR WEEKEND BEGINS with two exciting hands-on courses. The Embryo Transfer Simulation Course will be offered as a half-day course (morning and afternoon option available) and will focus on perfecting embryo transfer techniques using models ranging in levels of difficulty. The SRS Surgical hands-on course “The Art of Perfecting Myomectomies” will be offered as a full-day training course and will include tissue models to simulate removal of fibroids, tissue extraction and focus on suturing techniques.

In keeping with our ASRM 2021 Scientific Congress theme of “Reproduction Reimagined” we have an amazing line up of plenary speakers this year starting with Dr. Jennifer Doudna, who received the 2020 Nobel Prize in Chemistry for her pioneering work with CRISPR gene editing. The Scientific Congress Continuing Medical Education (CME) course offerings will include morning plenary and dual-afternoon lectures, symposia, and interactive sessions. You will hear innovative lectures that focus on personalized medicine, in vitro gametogenesis, artificial gametes from stem cells, the genetic basis of meiotic catastrophe, and applications of nuclear transplantation.

We will also celebrate the 40th anniversary of the 1st US IVF baby looking at the past, present and future of IVF. The symposia and interactive sessions will engage you in a variety of subjects from the use of social media in patient education, to strategies for developing a successful academic medicine career, from addressing inequalities in reproductive healthcare, to artificial intelligence in the IVF laboratory. Sessions related to diversity equity and inclusion, male reproduction, LGBTQ, and mental health are also in the lineup.

CME sessions will be complemented by non-CME activities including intimate roundtable luncheons covering the breadth and depth of reproductive medicine; and oral and poster-format scientific abstract presentations, representing cutting-edge research in reproductive medicine and biology.

Our Postgraduate courses selected by the Postgraduate Program Committee in collaboration with our affiliated societies, professional groups, special interest groups, and several International Societies and collaborating organizations will be ON-DEMAND again this year. These wide ranging multi-disciplinary courses, designed to emphasize innovation and discovery in the reproductive health and medicine arena, will be available for view until December 31st, 2021. We hope you will take advantage of these courses that allow you to view as your schedule permits through the end of the year.

We welcome our members, trainees, and colleagues from around the world to the ASRM 2021 Scientific Congress & Expo! We value your participation and engagement in all the educational and networking opportunities provided. I look forward to seeing you in the beautiful city of Baltimore, where together we will mark ASRM’s 77th Annual Congress. I also hope you will join us on Sunday night, October 17th, 2021 at the President’s Gala Celebration in support of the ASRM Research Institute and the outstanding research efforts of our Society members.

Sincerely,

Hugh Taylor, M.D.
ASRM President, 2020-2021
JOIN US FOR OUR

Opening Ceremony

Monday, October 18th,
7:45 am – 8:30 am

Plenary 1 will immediately follow in the same room.

A complimentary continental breakfast will be available
7:00 am – 7:45 am

Inside this Program

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15 Benefits of ASRM Membership

Have you looked at ASRM members benefits lately? We are consistently adding value for thousands of physicians and other professionals in the field of reproductive medicine. Boost your career with:

**News and Education**

1. Access to the latest science through an online subscription to *Fertility and Sterility, F&S Science, F&S Reviews, F&S Reports, and the Journal for Assisted Reproduction and Genetics (JARG)*
2. Opportunities for continuing education in person and online through ASRM airLearning™ modules, webinars, micro-videos, and certificate courses
3. Free access to ASRM QBoost, a program to test your knowledge on the go
4. Electronic bulletins from our Washington D.C. office that help you stay up to date on the latest reproductive health policy news
5. Access to printable Practice and Ethics committee guidelines

**Specials and Discounts**

6. Free CME, CE and PEER credits through ASRM airLearning™
7. Members-only rates on ASRM products
8. Discount on ASRM Scientific Congress and pre-Congress course registrations

**Professional Development and Recognition**

9. Networking opportunities including ASRM’s online discussion boards
10. Input into shaping policies and protocols through member groups and ASRM’s access to care efforts
12. Eligibility to receive ASRM research grants and awards

**Online Resources for Members Only**

13. Access to an online member login account, which includes current membership information and member group updates
14. Full access to the ASRM Membership Directory
15. Access to ASRM’s Career Center to help you find qualified job candidates while enjoying member discounts on job postings—or to help you find that perfect job

Learn more by visiting www.asrm.org and clicking on the Membership tab.

**Joining is easy!**

- Join online at www.asrm.org.
- Join by phone at +1-205-978-5000.
- Or join by visiting us at the ASRM booth during our annual Expo or at other selected meetings throughout the year.
ASRM 2021 Scientific Congress Program Planning Committees

Hugh S. Taylor, M.D., President
Paolo Rinaudo, M.D., Ph.D., Scientific Congress Program Chair
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Ruben Alvero, M.D., Roundtables Program Chair
Richard O. Burney, M.D., Postgraduate Program Chair
Erica B. Johnstone, M.D., M.Sc., Postgraduate Co-Chair
Samantha F. Butts, M.D., M.S.C.E., Postgraduate Coordinating Chair
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Micah Hill, M.D., Society for Reproductive Endocrinology and Infertility Program Chair
Philip Li, M.D., Society for Male Reproduction and Urology Program Chair
Kathleen Hwang, M.D., Society for Reproductive Surgeons Program Chair
Liesl Nel-Themaat, Ph.D., Society for Reproductive Biologists and Technologists Program Chair
Kim Bergman, Ph.D., Mental Health Professional Group Program Chair
Lauren Nervi, N.P., Nurses’ Professional Group Program Chair
Nidhi Desai, J.D., Legal Professional Group Program Chair
Danielle Soltész, M.B.A., M.P.H., Association of Reproductive Managers Program Chair
Rachel Donnell, M.Sc., Genetic Counseling Professional Group Program Chair

Vickie Gamble, M.P.P.M., Interim ASRM Chief Executive Officer
Chevis Shannon, Dr.P.H., M.B.A., M.P.H., M.E.R.C., ASRM Chief Education and Science Officer
Jody Thrash, M.B.A., ASRM Educational Programming and Special Projects Manager

ASRM Officers and Board of Directors 2020 – 2021

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Philip S. Li, M.D.
Marius Meintjes, D.V.M., Ph.D.
Charles Miller, M.D.
Ceana H. Nezhat, M.D.

John Nichols, Jr, M.D.
John Petrozza, M.D.
Marc P. Portmann, M.T., M.H.A., E.L.D.
Salli Tazuke, M.D.
Mark Trolice, M.D.
Togas Tulandi, M.D.
POSTGRADUATE COURSES ARE ON-DEMAND

HALF DAY COURSES

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>PG01</td>
<td>Lessons from COVID-19 and Access to Care</td>
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<tr>
<td>PG02</td>
<td>Difficult Conversations: Tools, Tips, and Training for Effective Communication</td>
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<tr>
<td>PG03</td>
<td>Primary Ovarian Insufficiency and Fertility: A Mind and Body Approach</td>
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<tr>
<td>PG04</td>
<td>Optimizing Fresh and Frozen Embryo Transfer: Newest Evidence on Measuring, Timing, and Replacing Progesterone</td>
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<tr>
<td>PG05</td>
<td>Unexplained Infertility: Have A Look And You’ll Find The Answers</td>
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</table>

FULL DAY COURSES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>PG06</td>
<td>Changing with the Times: Mitigating Risk for Your ART Practice While Improving Care for Your Patients</td>
</tr>
<tr>
<td>PG07</td>
<td>Controversies in Recurrent Implantation Failure</td>
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<tr>
<td>PG08</td>
<td>Endometriosis and Adenomyosis Diagnosis, and Assessment: Clinical and Pathophysiological Perspectives</td>
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<tr>
<td>PG09</td>
<td>Reproductive Aging: Meeting the Challenges in Clinical and Laboratory Practice</td>
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<tr>
<td>PG10</td>
<td>Comprehensive Review of Genetic Carrier Screening: Genetic Counseling, Legal, and Physician Perspectives</td>
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<tr>
<td>PG11</td>
<td>A Critical Assessment of Invasive and Non-Invasive PGT What’s the Impact on ART?</td>
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<tr>
<td>PG12</td>
<td>Addressing Controversies in the Work up and Treatment of Recurrent Pregnancy Loss</td>
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<tr>
<td>PG13</td>
<td>Tricks of the Trade: Small Things That Can Make a BIG Difference in the IVF Lab</td>
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<tr>
<td>PG14</td>
<td>Challenges in Freeze All Embryos</td>
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<tr>
<td>PG15</td>
<td>Male Infertility and ART: An Update on the Diagnosis, Treatment, and Optimization of ART Outcomes</td>
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<tr>
<td>PG16</td>
<td>A Review of Clinical and Laboratory Sperm Selection Technologies to Optimize ART Outcomes</td>
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<tr>
<td>PG17</td>
<td>Cross-Border Family Building: Big Dreams, Small World</td>
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<tr>
<td>PG18</td>
<td>Vaginal Microbiome and Reproductive Health: From Research to Clinical Practice</td>
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<tr>
<td>PG19</td>
<td>Riding the Wave of Change: Keys to Success</td>
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<tr>
<td>PG20</td>
<td>Strategies to Improve the Safety of Controlled Ovarian Stimulation Protocols: Paving the Way for Ovss-Free IVF?</td>
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</table>

HANDS-ON COURSES

8:00 am - 12:00 pm  Embryo Transfer Skills Workshop Morning Session (Hands-on Simulation)
1:00 pm - 5:00 pm  Embryo Transfer Skills Workshop Afternoon Session (Hands-on Simulation)

SUNDAY EVENING

6:00 pm  ASRM 2021 President’s Gala benefiting the ASRM Research Institute
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 am - 7:45 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:45 am - 8:30 am</td>
<td>ASRM 2021 Opening Ceremony</td>
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<tr>
<td>8:30 am - 9:15 am</td>
<td>Plenary                  President’s Guest Lecture: TBD</td>
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<tr>
<td>9:00 am - 12:00 pm</td>
<td>Poster Setup              Big Data for Health and Pregnancy</td>
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<tr>
<td>9:15 am - 10:00 am</td>
<td>Plenary                  Big Data for Health and Pregnancy</td>
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<tr>
<td>10:00 am - 10:45 am</td>
<td>Break                    Big Data for Health and Pregnancy</td>
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<tr>
<td>10:45 am - 12:15 pm</td>
<td>Scientific Congress Prize Paper Session 1</td>
</tr>
<tr>
<td>11:00 am - 12:00 pm</td>
<td>MHPG Clinical Session       Psychological and Medical Experiences of Compensated Gestational Carriers in the U.S.</td>
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<tr>
<td>12:15 pm - 1:30 pm</td>
<td>Break/Lunch               Multidisciplinary and Collaborative Approach to Endometriosis in Fertility</td>
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<tr>
<td>12:20 pm - 1:20 pm</td>
<td>Roundtable Discussions     RTM01 – RTM35</td>
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<tr>
<td>1:30 pm - 2:45 pm</td>
<td>Symposia                  The ABOG Foundation - Kenneth J. Ryan Ethics Symposium: Reimagining Reproductive Counseling and Treatment in an Era of Uncertainty: Pandemic Impacts on Fertility Care</td>
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<tr>
<td>3:00 pm - 3:45 pm</td>
<td>Plenary                  The David and Rosemary Adamson Lecture on Excellence in Reproductive Medicine: A Supportive Physiologic Environment for the Extreme Premature Infant, Progress and Future Application</td>
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<tr>
<td>3:00 pm - 3:45 pm</td>
<td>Plenary                  American Urological Association (AUA) Bruce Stewart Memorial Lecture: Compelling Evidence that Collaboration with Qualified Male Reproductive Urologists Improves ART Outcomes</td>
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<tr>
<td>3:45 pm - 4:30 pm</td>
<td>Break                    Knowledge Is Power: Educating the Modern Day REI Nurse</td>
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<tr>
<td>4:15 pm - 5:30 pm</td>
<td>Video Session 1           Reimagining the Future of Male Reproductive Medicine in the Age of Telemedicine and Beyond</td>
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<td>4:30 pm - 5:30 pm</td>
<td>NPG Clinical Session      PGT-a for Pregnancy Loss Prevention. Who is It Good for?</td>
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<td>4:30 pm - 5:30 pm</td>
<td>Interactive Sessions      Evidence Based Selection of Ovarian Stimulation Protocols for Fertility Preservation</td>
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<td>Integrating the Reproductive Urologist within the Modern ART Practice</td>
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<td>Asherman’s Syndrome: Surgery vs. Gestational Carrier/Surrogacy</td>
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<td>The Vagina Dialogues: How the Vaginal Microbiome Is Emerging As a Key Factor in Reproductive Health</td>
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<td>How to Optimize Outcomes for the Infertility Patient with PCOS</td>
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<td>Diversity, Equity and Inclusion Task Force Townhall: Make Your Voice Heard!</td>
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<td>Snap, Tweet, Tok! Reimagining Patient Education with the Use of Social Media</td>
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<td>Open-Identity Gamete Donation: What Are the Children Saying?</td>
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<td>Hormone Therapy for Primary Ovarian Insufficiency and Menopausal Symptoms: Case Presentations</td>
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<td>Poster Abstract Session and Continental Breakfast</td>
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<td>10:45 am - 12:15 pm</td>
<td>Scientific Congress Prize Paper Session 2</td>
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<td>10:45 am - 12:15 pm</td>
<td>Surgical Video Tutorial</td>
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<td>Video Session</td>
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<tr>
<td>10:45 am - 11:15 pm</td>
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<td>11:00 am - 12:00 pm</td>
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ASRM Scientific Congress Policies and Disclaimers

CANCELLATION POLICY
The American Society for Reproductive Medicine reserves the right to cancel this activity due to unforeseen circumstances. In the event of such cancellation, the full registration fee will be returned to the registrant.

REFUND/NON-ATTENDANCE POLICY
Cancellations received on or before September 11th, will receive a full refund minus a $150 processing fee. Cancellation requests must be submitted in writing. Cancellations received after September 11th will not be eligible for a refund.
On-Demand Congress Registration Fees are non-refundable.

ADA STATEMENT
The American Society for Reproductive Medicine fully complies with the legal requirements of the Americans with Disabilities Act (ADA) and the rules and regulations thereof. Please notify the American Society for Reproductive Medicine, 1209 Montgomery Highway, Birmingham, Alabama, USA, 35216, telephone 1-205-978-5000, a minimum of 10 working days in advance of the event if a reasonable accommodation for a disability is needed.

EQUAL OPPORTUNITY STATEMENT
The American Society for Reproductive Medicine values and promotes diversity among its members, officers, and staff. The Society prohibits discrimination toward any member or employee due to race, color, religion, age, gender, sexual orientation, national origin, citizenship, disability, military status, or other basis prohibited by law. ASRM strives to achieve gender, racial, and ethnic balance in hiring and governance. ASRM maintains policies, procedures, and personnel actions that conform to the letter and spirit of all laws and regulations pertaining to equal opportunity and nondiscrimination in employment, appointments, and elections to office.

DISCLAIMER STATEMENT
The content and views presented in this educational activity are those of the faculty/authors and do not necessarily reflect those of the American Society for Reproductive Medicine. This material is prepared based on a review of multiple sources of information, but it is not exhaustive of the subject matter. Therefore, healthcare professionals and other individuals should review and consider other publications and materials on the subject matter before relying solely upon the information contained within this educational activity to make clinical decisions about individual patients.

Registration and Information

Choices may be limited on-site. Pre-registration is recommended.

ON-SITE REGISTRATION DESK: BALTIMORE CONVENTION CENTER
Saturday, October 16 ........... 2:00 pm – 6:00 pm
Sunday, October 17 ............ 7:00 am – 5:00 pm
Monday, October 18 ........... 7:00 am – 5:00 pm
Tuesday, October 19 ........... 7:00 am – 5:00 pm
Wednesday, October 20 ....... 7:00 am – 2:00 pm

BE SURE TO VISIT THE EXPO HALL
Monday, October 18 ........... 9:00 am – 5:00 pm
Tuesday, October 19 ........... 9:00 am – 5:00 pm
Wednesday, October 20 ...... 9:00 am – 2:00 pm

Children under 16 are allowed on the Expo Floor only when accompanied/supervised by an adult. No strollers allowed.
**Registration Information**

### On-Demand Postgraduate Course Fees

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Member Price</th>
<th>Non-member Price</th>
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<tr>
<td>Cost per each additional Half-day Course</td>
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<tr>
<td>Non-Doctoral</td>
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<td>$350</td>
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<td>Cost per each additional 1-day course</td>
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### Scientific Congress Registration Fees

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<th>Late/On-site After 9/17/2021</th>
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<td>Team Member from your office/practice</td>
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*Proof-of-status letter from chair/dept. head required

### Ticketed Events

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<td>Roundtable Luncheons</td>
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<td>Women’s Council Breakfast</td>
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<td>President’s Gala</td>
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<td>Full-day Surgical Course</td>
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<td>Half-day Embryo Transfer Course</td>
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<tr>
<td>NICHD-ASRM Workshop</td>
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*Proof-of-status letter from chair/dept. head required

**ASRM On-Demand Scientific Congress Registration Fees**

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<th>Membership Type</th>
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<td>Student**</td>
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</tr>
<tr>
<td>ASRM Life Member</td>
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</table>

On-demand registration will close on November 30, 2021

*Proof-of-status letter from chair/dept. head required

**Full-time medical students and full-time graduate students working toward first doctorate; documentation required**
Registration Information

Book in the ASRM Housing Block and save $50 off registration fees!

**Individual Registration** for the ASRM 2021 Scientific Congress & Expo opens May 26, 2021.

**Group Registration** for the ASRM 2021 Scientific Congress & Expo opens May 26, 2021.

To register, visit:
1. [www.asrmcongress.org](http://www.asrmcongress.org) and click on
2. **ASRM Congress** and then
3. **Register for 2021 Scientific Congress & Expo**

Use your ASRM 2021 Preliminary Program as a guide to register for the courses you wish to attend.

For questions, please call (571) 549-4539 or email asrmregistration@spargoinc.com.

Register early to take advantage of discounted rates!

**Early Bird Deadline: September 17, 2021**

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Please visit [www.ASRMCongress.org](http://www.ASRMCongress.org) to register for the Congress. This is the legitimate site on which to register. Every year, fraudulent, scam registration sites appear in an attempt to steal your personal information. Don’t be misled by one of these.

Cancellations received before or by September 17, 2021 will receive a full refund minus a $150 processing fee.

Cancellations received after September 17, 2021 **WILL NOT BE ELIGIBLE FOR A REFUND.**

Cancellation requests must be submitted in writing to asrmregistration@spargoinc.com.

**ON-DEMAND SCIENTIFIC CONGRESS REGISTRATION FEES ARE NON-REFUNDABLE**

For those attendees requiring visas, the online letter of invitation will display once you complete your registration. We suggest that you register early in order to submit your visa application in a timely manner.

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**ADMISSION BADGES**
Name badges will be issued for the Postgraduate and Scientific Congress and are required for admission. Spouse/guest badges will be issued and are required for admission to the Opening Ceremony, Plenary Sessions, and the Expo Hall. Badges must be worn at all times.

**PHOTO/AUDIO/VIDEO RECORDING**
Photographing or audio/video recording of any session for personal or commercial purposes without permission is prohibited.

**HARASSMENT POLICY**
It is the policy of the American Society for Reproductive Medicine that all participants in Society activities will enjoy an environment free from all forms of discrimination, harassment, and retaliation. ASRM is committed to the philosophy of equal opportunity and treatment for all members regardless of race, color, religion, age, gender, sexual orientation, gender identity, national origin, citizenship, disability, military status, or any other reason not related to scientific merit. Visit [www.ASRMCongress.org](http://www.ASRMCongress.org) for more details.
The headquarter hotel is Hilton Baltimore.

<table>
<thead>
<tr>
<th>Hotel Name</th>
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<tbody>
<tr>
<td>1. Hilton Baltimore Inner Harbor HQ</td>
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<tr>
<td>2. Hyatt Regency Baltimore</td>
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<tr>
<td>3. Sheraton Inner Harbor</td>
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<tr>
<td>4. Baltimore Marriott Inner Harbor at Camden Yards</td>
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</tr>
<tr>
<td>5. Days Inn Inner Harbor</td>
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<tr>
<td>6. Hotel Monaco Baltimore</td>
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<tr>
<td>7. Renaissance Harborplace Hotel</td>
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<tr>
<td>8. Crowne Plaza Baltimore Inner Harbor</td>
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<tr>
<td>9. Hampton Inn Baltimore-Downtown/Convention Center</td>
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<tr>
<td>10. Lord Baltimore Hotel</td>
<td>3 blocks</td>
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<tr>
<td>11. Royal Sonesta Harbor Court</td>
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</tr>
<tr>
<td>12. Baltimore Marriott Waterfront Hotel</td>
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</table>
Continuing Professional Development:
Continuing Medical Education | Continuing Education Credits

ASRM Continuing Education Programs
The goal of ASRM is to sponsor educational activities that provide learners with the tools needed to conduct research, practice the best medicine, and provide the best, most current care to patients.

ASRM adheres to the Essentials and Policies of the Accreditation Council for Continuing Medical Education (ACCME). CME activities must address specific, documented, clinically important gaps in physician knowledge, competence, or performance; be documented to be effective at increasing physician knowledge, competence, performance, or outcomes; and conform to the ACCME Standards for Commercial Support.

All planners and presenters disclose commercial and financial relationships pertaining to reproductive medicine. These disclosures were reviewed by the Subcommittee for Standards for Commercial Support of the ASRM CME Committee and the Executive Program Committee, which resolved perceived potential conflicts of interest.

How to Claim Continuing Medical Education/Continuing Education Credits
For Post Graduate (PG) Courses:
• Register for the on-demand Post Graduate Courses
• Complete a post-course assessment using a web link emailed to your registration email address.
• After completion of all assessments for PG and Scientific Congress (SC) sessions then complete an Overall Evaluation.
• Download and print your certificate.

For the Scientific Congress (SC):
• Attend the Congress sessions of your choice.
• Complete a postsession assessment for the sessions you attended using a web link emailed to your registration email address. The Congress sessions will be available live and on-demand.
• After completion of all assessments for SC sessions and PG courses then complete an Overall Evaluation.
• Download and print your certificate.

Final date to claim credit is December 31, 2021.
Email questions to education@asrm.org.

The Accreditation Council for Continuing Medical Education (ACCME)
The American Society for Reproductive Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

ASRM 2021 Scientific Congress Designation Statement
The American Society for Reproductive Medicine designates this activity for a maximum of 73.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ASRM 2021 Post Graduate Course Program Designation Statement
The American Society for Reproductive Medicine designates Post Graduate Courses 06-20 for a maximum range of 5.5 to 9.0 AMA PRA Category 1 Credits™ per course. Post Graduate Courses 01-05 are approved for a maximum range of 3.0 to 3.5 AMA PRA Category1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American College of Obstetricians and Gynecologists (ACOG) Application will be made to the American College of Obstetricians and Gynecologists for assignment of Cognates to the Scientific Congress and selected Post Graduate Courses.

American Board of Bioanalysis (ABB) Application will be made to the American Board of Bioanalysis for Professional Enrichment Education Renewal (PEER) credits for the Scientific Congress and selected Post Graduate Courses.

Nursing Credits: National Association of Nurse Practitioners in Women’s Health (NPWH) Application will be made to the Continuing Education Approval Program of the National Association of Nurse Practitioners in Women’s Health for select sessions of the Scientific Congress; NPG Clinical Sessions CSM02, CST01, CSW02; and Post Graduate Courses 02 and 17.

American Psychological Association (APA) The Mental Health Professional Group (MHPG) of the American Society for Reproductive Medicine is approved by the American Psychological Association to sponsor continuing education for psychologists. MHPG maintains responsibility for this program and its content. CE credits will be available for select sessions of Scientific Congress; Post Graduate Courses 02, 17, and 19; MHPG Clinical Sessions CSM01, CSW01; and other selected scientific congress sessions.

National Association of Social Workers (NASW) Application will be made to the National Association of Social Workers (NASW) for select sessions of the Scientific Congress and selected Post Graduate Courses 02, 17 and 19.

National Society of Genetic Counselors (NSGC) Application will be made to the National Society of Genetic Counselors (NSGC) for Category 1 contact hours for Post Graduate Course 10 and selected sessions in the Scientific Congress. Participants requesting NSGC CEUs will have a service fee of $30 added to their meeting registration to cover payment to the National Society of Genetic Counselors for the filing and awarding of CEU certificates.

Disclosures of faculty and presenters for the Post Graduate and Scientific Congress may be in a presentation slide, printed material, or oral statement, and will be printed in the ASRM Final Program. Abstract authors’ disclosures will be printed in the 2021 Program. Roundtable and Expert Encounter presenters should provide a copy of their disclosure to participants at their table.
HALF DAY COURSES

PG 01 Lessons from COVID-19 and Access to Care CME
Developed in cooperation with the Society for Reproductive Endocrinology & Infertility (SREI), and the Access to Care Special Interest Group

Faculty
Eve C. Feinberg, M.D. (Chair)
Kenan Omurtag, M.D.
Tarun Jain, M.D.

Target Audience
Professionals in the field of reproductive medicine, MDs, nurses, psychologists, urologists and other advocates for access to care.

Needs Assessment
The challenge of the COVID-19 pandemic exacerbated an already large challenge of access to infertility care. Unique solutions to both emerged during the COVID-19 pandemic that enhanced access to care and enabled individuals and couples to seek fertility care in more creative ways. Telemedicine emerged as the new way to see patients safely and various platforms have been utilized. This course will address the different telehealth platforms and billing codes to optimize reimbursement. Additional challenges of education for trainees were encountered and novel teaching strategies enhanced education and broadened thinking about how to best educate our trainees. Society recommendations sparked debate about what "essential" means and this can be applied to broadening insurance mandates for infertility. This course will also address the idea of state mandated care and how "essential" services like infertility should be included in insurance mandates.

Description
The course will cover the novel use of mechanisms to increase access to care and educational opportunity. Home semen analysis, ovarian reserve testing will be discussed. Telehealth platforms, billing strategies will be explained. Use of electronic platforms for debates, journal clubs, fellowship interview days will be demonstrated and the decision of what "essential" care is and how that interplays with state insurance mandates will be discussed.

ACGME Competency
Communication, Roles/Responsibilities, Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement, Systems-based Practice

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Discuss the definition of "essential" and understand why insurance coverage should be broadened to include infertility
2. Implement the use of electronic platforms to enhance educational opportunity
3. Describe different platforms for telehealth and different types of consultations that can be done via telehealth
Difficult Conversations: Tools, Tips, and Training for Effective Communication

Developed in cooperation with the Society for Reproductive Endocrinology & Infertility (SREI), Association of Reproductive Managers (ARM), Mental Health Professional Group (MHPG), and the Nurses’ Professional Group (NPG)

Faculty
Tamara Tobias, A.R.N.P. (Chair)
Lindsay Nicholas, R.N.
LaTasha B. Craig, M.D.
Elizabeth Anne Grill, Psy.D.

Target Audience
This interprofessional course is intended for all reproductive medicine physicians, nurses, advanced practice providers, mental health professionals, genetic counselors, and any allied health providers involved in direct patient care.

Needs Assessment
Engaging in difficult conversations is hallmark for anyone involved with caring for those struggling with infertility. Without the proper tools, these challenging conversations can lead to both patient and staff burnout. This course will offer needed education, training, and concrete tools for effective communication for health care professionals. These skills may enable all staff to provide competent, effective, and consistent patient care. Providing consistent, quality patient care enhances the overall patient experience, improves patient satisfaction, and hopes to reduce patient complaints. The faculty from this course have a goal to turn this session into an Air-learning module available to all ASRM members so they can share with their clinical teams.

Description
This interdisciplinary course will provide evidence-based tools that can be utilized to improve communication skills. Topics in this course include setting patient expectations, coping strategies for loss, how to deliver bad news, motivational interviewing, and empathy training. Specific methods for difficult patient encounters will be explored. Additionally, this class will include a session for how to address unique issues in treating LGBTQ patients. Training on how to effectively manage difficult conversations may help decrease stress and burnout for staff and may provide coping skills for patients to enhance their overall health and REI experience.

ACGME Competency
Communication, Teams and Teamwork, Values/Ethics, Interpersonal and Communication Skills, Professionalism

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Engage in an interactive practice session to improve communication skills.
2. Use empathy training to help set patient expectations and provide strategies for coping with loss.
3. Apply motivational interviewing skills for behavior change.
4. Use tools and tips for delivering bad news and managing difficult patient encounters.
PG03 Primary Ovarian Insufficiency and Fertility: A Mind and Body Approach

Developed in cooperation with the Mental Health Professional Group (MHPG), Menopause and Ovarian Insufficiency Special Interest Group, and the Pediatric and Adolescent Gynecology Special Interest Group

Faculty
Mindy S. Christianson, M.D. (Chair)
Krista Childress, M.D.
Danielle Kaplan, Ph.D.

Target Audience
This course will target reproductive endocrinologists, pediatric gynecologists, menopause specialists, clinical fellows and advanced practice providers.

Needs Assessment
Primary ovarian insufficiency (POI) impacts 1% of women prior to age 40 and many may desire future pregnancy but not be ready to immediately attempt to conceive. This course will update participants on the current, most up-to-date, diagnosis and treatment of POI. In addition, the course will address treatment for POI for all age groups, including adolescents and those of reproductive age. According to the 2019 ASRM Gap Analysis and Educational Needs Assessment, management of fertility for patients with POI was an identified gap. Additionally, the psychiatric needs of reproductive endocrinology and infertility patients was identified as a gap. In addition to addressing fertility needs for patients with POI, this course will also address the emotional and psychological needs of women with POI, which is often a shocking diagnosis that brings with it life-changing implications. By collaborating with the Mental Health Professionals Group, this course will also provide information for clinicians on how to address the psychological needs of patients diagnosed with primary ovarian insufficiency. The need to counsel and provide treatment options as well as psychosocial support for this group spans the goals of three different special interest groups (MOISIG, PAGSIG and MHPG) in terms of clinical education.

Description
This course will address the clinical management and recommended psychosocial support for women diagnosed with primary ovarian insufficiency. Proposed course content includes the following topics: 1) Diagnosis and evaluation of patients with primary ovarian insufficiency, 2) Treatment and long-term follow up for patients with POI, 3) Psychosocial support for patients with POI at time of diagnosis, 4) Fertility options for patients with POI, 5) Impact of receiving a diagnosis of POI across the reproductive lifespan. 4) Psychological support for patients with POI with respect to family building choices.

ACGME Competency
Communication, Roles/Responsibilities, Teams and Teamwork, Interpersonal and Communication Skills, Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Describe the natural history, epidemiology, clinical evaluation and diagnosis for primary ovarian insufficiency (POI).
2. Counsel patients with POI regarding treatment, including options for future fertility.
3. Recommend psychosocial support options for patients diagnosed with POI as well as those considering fertility options.
4. Describe impact of receiving a diagnosis of POI across the reproductive lifespan and identify times when patients may most benefit from consultation with a mental health professional.
Optimizing Fresh and Frozen Embryo Transfer: Newest Evidence on Measuring, Timing, and Replacing Progesterone

Developed in cooperation with the Society for Assisted Reproductive Technology (SART), Society for Reproductive Endocrinology & Infertility (SREI), and the Early Pregnancy Special Interest Group

Faculty
Kate Devine, M.D. (Chair)
Christos Venetis, M.D., M.Sc., Ph.D.
Frauke Versen-Höynck, M.D., M.Sc.

Target Audience
This interprofessional course is designed for physicians, embryologists, advanced practice providers, nurses, and researchers.

Needs Assessment
According to the CDC ART National Summary, frozen embryo transfer represents 33% of all US ART cycles, with a prevalence surpassing fresh embryo transfer. While vitrification has resulted in increased embryo survival and warmed embryo implantation, the optimal endometrial preparation is unclear. Recent evidence suggests that a natural cycle FET may have reduced obstetrics risks and suggests a role for the corpus luteum in ART treatments. Progesterone is vital for endometrial preparation, implantation, and pregnancy development. The timing of progesterone rise, the effect of premature progesterone elevation, exogenous versus endogenous sources, and route of administration are all progesterone dependent factors in successful implantation and optimal obstetric outcomes. Recent randomized controlled evidence has demonstrated that progesterone in oil is superior to vaginal progesterone for frozen embryo transfers. Premature progesterone elevation occurs in up to 38% of all ART cycles and diminishes fresh embryo transfer success, affecting tens of thousands of treatment cycles annually. This course addresses the Gap/Need to educate on the role of progesterone to guide fresh or frozen embryo transfer, to educate on the usefulness of natural cycle frozen embryo transfer, and provide an evidence based session to improve patient ART outcomes.

Description
This course addresses the practice knowledge gap to understand how serum progesterone measurements can determine fresh or frozen embryo transfer, education on the usefulness of natural cycle frozen embryo transfer, and optimizing patient ART outcomes. Education will be given on the progesterone assay, how reproductive physiology influences the interpretation of serum progesterone values, using progesterone to determine fresh or frozen transfer, optimal timing of progesterone initiation in frozen transfers, route of progesterone administration, and the role of the corpus luteum on natural cycle frozen transfer outcomes.

ACGME Competency
Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Differentiate the physiologic considerations to interpret a single serum progesterone value: assay issues, timing of measurement, interpretation in the context of gonadotropins, and contribution of the adrenals
2. Counsel patients on serum progesterone levels and optimal fresh or frozen embryo transfer decisions.
3. Apply best evidence for route and timing of progesterone administration in frozen embryo transfer.
4. Review the most recent evidence on natural cycle frozen embryo transfer pregnancy and obstetric outcomes.
**PG05  Unexplained Infertility: Have A Look And You´ll Find The Answers**

Developed in cooperation with the European Society of Human Reproduction and Embryology (ESHRE)

**Faculty**
Stephan Gordts, M.D. (Chair)
Leuven Instituut voor Fertiliteit en Embryologie, Belgium
Maribel Acién, M.D., Ph.D.
San Juan University Hospital, Spain
Antoine Watrelot, M.D.
Lyon Natacia Hospital, France

**Target Audience**
This interprofessional course is designed for clinicians, surgeons and practice managers.

**Needs Assessment**
Unexplained infertility diagnosis strongly depends on the roll out path that couples follow. With the advances of endoscopy, and the need of re-imaging reproduction, the truth is that having a look may help finding the explanation and following a “see and treat” protocol. With some research papers showing contradictory results, clinicians still need to elaborate the path on how to diagnose and treat mild hydrosalpinges, endometriosis, adenomyosis or Müllarian anomalies to improve IVF outcomes, how to prioritize and the pros/cons of ART or diagnostic and surgical treatments. Optimizing patient outcomes in ART is mandatory but the long-term reproductive performance needs also to be considered.

**Description**
This course addresses the educational needs that health-care professionals in reproductive medicine face on their daily practice; outline best strategies for ruling out the unexplained infertility and improve their knowledge on how surgery can find the answers and improve the reproductive performance not only prior to ART but also for the reproductive future of the patient. In terms of practice management the course will address the interest of the endoscopic techniques in the management of unexplained infertility, including mild hydrosalpinges, minimal endometriosis and those pathologies distorting the uterine cavity. Emphasis will be given on establishing a route for health care.

**ACGME Competency**
Medical Knowledge, Patient Care and Procedural Skills

**Learning Objectives**
At the conclusion of this course, participants should be able to:
1. Appraise the paper of endoscopic surgery on the unexplained infertility
2. Select which patients would benefit from minimal endometriosis surgical treatment prior to ART
3. Debate the alternatives in case of mild hydrosalpinx
4. Review the paper of hysteroscopy on the evaluation of pathologies affecting the uterine cavity
PG 06  **Changing with the Times: Mitigating Risk for Your ART Practice While Improving Care for Your Patients**  
Developed in cooperation with the Society for Assisted Reproductive Technology (SART), Society of Reproductive Biologists and Technologists (SRBT), and the Legal Professional Group (LPG)

**Faculty**
Amy E. Sparks, Ph.D. (Chair)  
Jennifer F. Kawwass, M.D.  
Nidhi Desai, J.D.

**Target Audience**
This interprofessional course is designed for physicians, embryologists, advanced practice providers, nurses, practice managers, and attorneys.

**Needs Assessment**
ART practices navigate an increasingly complex array of challenges that are unique to the practice of in vitro fertilization. These challenges must be handled thoughtfully to optimize outcomes for patients and to mitigate risk for the practice. Prior ASRM gap analysis has identified several key topics where discussion and recommendations for best practice are needed. These topics include requests for transfer of embryos outside of established guidelines, transfer of embryos with abnormal results for pre-implantation genetic testing, elements of informed consent, disposition of abandoned embryos, and disaster management planning. In addition, embryologists have stated that they have a need for more information about how to minimize the risk of cryopreservation tank failures, incubator failures, human error in the IVF laboratory and liabilities brought about by inadequate staffing and/or reliance on traveling staff for the laboratory.

**Description**
This course will include frank discussions regarding what to do when confronting risk and areas of uncertainty. We will discuss developing policy for transferring embryos with pre-implantation genetic test results suggesting mosaicism or aneuploidy, including recommendations, logistics, review of ethical concerns, and legal risk. We will discuss criteria to consider in accepting gametes and embryos from outside laboratories, policies surrounding abandoned embryos, and best practices for mitigating risk of cryopreservation tank failure, incubator failure and human error in the IVF laboratory, as well as laboratory staffing needs. Finally, this course will present ideas for confronting future risk and disaster management.

**ACGME Competency**
Communication, Roles/Responsibilities, Teams and Teamwork, Values/Ethics, Interpersonal and Communication Skills, Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement, Professionalism, Systems-based Practice

**Learning Objectives**
At the conclusion of this course, participants should be able to:
1. Formulate a disaster management plan including laboratory safety, monitoring and alarm systems, contingency plans, and public relations management
2. Develop a plan for accepting frozen gametes and embryos from outside practices
3. Discuss the staffing needs of the embryology laboratory and precautions needed for clinics as well as embryologists in an embryology consulting agreement, such as insurance and competency of hired consultants
4. List strategies to minimize the risk of cryopreservation tank failures, incubator failures and human error in the IVF laboratory
5. Describe issues to consider in the disposition of abandoned embryos
6. Develop practice policy for transferring embryos with pre-implantation testing results suggesting mosaicism or aneuploidy
Controversies in Recurrent Implantation Failure

Developed in cooperation with the Society for Assisted Reproductive Technology (SART), Society for Reproductive Endocrinology & Infertility (SREI), Endometriosis Special Interest Group, Physician-Scientists' Special Interest Group, and the Early Pregnancy Special Interest Group

Faculty
Steven L. Young, M.D., Ph.D. (Chair)
Jason M. Franasiak, M.D.
Zev Williams, M.D., Ph.D.
Caroline McCaffrey, Ph.D.

Target Audience
This interprofessional course is designed for physicians, embryologists, advanced practice providers, nurses, and researchers.

Needs Assessment
Recurrent implantation failure (RIF) is a challenging clinical scenario for providers and patients. RIF is relatively common with an estimated prevalence of 5-15%. There remains no consensus diagnostic criteria for RIF and no standard algorithm for evaluation and treatment. This results in wide variation in clinical practice patterns and controversy over diagnostic and management options. Advances in diagnostic testing have opened up new avenues for evaluation of the endometrium and embryo. Novel treatments may offer new therapeutic options, but rigorous evaluation of the supportive evidence is imperative. ASRM has identified four gaps in knowledge related to recurrent implantation failure: uterine factors important for fertility, endometrial testing after failed euploid frozen embryo transfer, emerging technology in embryo implantation and uterine receptivity, and optimizing ART outcomes. This course will provide educational material that covers these knowledge gaps and educational needs, while documenting the closing panel discussion on reaching ideal consensus for defining RIF and areas of research need to close existing knowledge gaps.

Description
This course will address educational needs regarding oocyte, spermatozoa, embryo, and endometrial causes of recurrent implantation failure. The course will explore the controversies in how recurrent implantation failure is defined and the evidence behind testing and treatment strategies. Experimental diagnostics and treatments will be critically examined from an evidence-based approach. Participants will gain knowledge in diagnosis and management tools for this challenging clinical scenario. The course will end with a panel discussion on defining recurrent implantation failure and identifying research gaps, to help define and guide novel areas of research.

ACGME Competency
Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Appraise emerging literature and strength of evidence for novel therapies.
2. Examine the evidence regarding potential therapeutic strategies to improve implantation.
3. Differentiate embryo and endometrial contributions to implantation.
4. Examine the evidence for embryo and endometrial diagnostic testing strategies.
5. Summarize the evidence on methods to improve ART outcomes in the setting of recurrent implantation failure.
6. Apply evidence presented at final panel discussion to generate diagnostic criteria and research needs analysis.
**Endometriosis and Adenomyosis Diagnosis, and Assessment: Clinical and Pathophysiological Perspectives**

Developed in cooperation with the Endometriosis Special Interest Group, and the Imaging in Reproductive Medicine Special Interest Group

**Faculty**
Laurel Stadtmauer, M.D., PhD (Chair)
Steven L. Young, M.D., Ph.D.
Laura Detti, M.D.
Caterina Exacoustos, M.D., Ph.D.

**Target Audience**
The target audience includes all healthcare providers that engage in reproductive imaging and care in clinical practice of patients with endometriosis. This includes nurses, gynecologists, reproductive endocrinologists, and ultrasound technologists.

**Needs Assessment**
The incidence of endometriosis is as high as 10% in the general population, and at least 40% in the infertility population, making the disease highly relevant for reproductive medicine professionals. Over the last few years, there have been improvements in the diagnosis of endometriosis by 3-D ultrasound imaging. ASRM has reported a significant knowledge gap and educational need in the new medical and surgical management for endometriosis and adenomyosis for both pain and fertility and the place of surgical treatment in patients considering IVF. The current knowledge gap is compounded by a lack of experience with newly emerging biomarkers and their role in affecting implantation and new medical therapies. The Gap analysis from 2019 relevant to this course in endometriosis, adenomyosis, reproductive imaging and surgery include: management options for endometriosis beyond standard therapy, newer medical therapies and surgical treatments for endometriosis, overview of adenomyosis and its relationship to the biology of reproduction with a focus on current techniques for treatment, and how to manage congenital uterine anomalies.

**Description**
This course will help close these knowledge and practice gaps and improve skills in the areas of imaging in reproductive medicine, endometriosis and adenomyosis, with presentations from experts. It will cover new approaches of diagnosis and treatment from a mechanistic and clinical perspective to optimize outcomes in infertile patients with endometriosis. Controversial areas covered include the role of surgical removal of endometriomas before IVF as well as when to correct uterine anomalies associated with endometriosis. The diagnosis of endometriosis will focus on new techniques in ultrasound and MRI imaging and novel endometriosis biomarkers.

**ACGME Competency**
Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement

**Learning Objectives**
At the conclusion of this course, participants should be able to:
1. Be familiar with endometriosis biomarkers that are useful for diagnosis and treatment of endometriosis
2. Improve skills on the imaging diagnosis of endometriosis and adenomyosis including deep infiltrating endometriosis.
3. Assess innovative imaging and treatment techniques for endometriosis.
PG09  

**Reproductive Aging: Meeting the Challenges in Clinical and Laboratory Practice**

Developed in cooperation with the Turkish Special Interest Group

**Faculty**
Kutluk H. Oktay, M.D., Ph.D. (Chair)
Nanette F. Santoro, M.D.
Aleksandar Rajkovic, M.D.
Murat Sonmezer, M.D. professor

**Target Audience**
This course is designed to educate REI fellows, REI subspecialists, nurses, embryologists, clinical and laboratory researchers in reproductive medicine.

**Needs Assessment**
Reproductive aging affects both genders and is one of the key reasons why patients seek help from reproductive endocrinologists. As gathered from the 2019-2020 Gap Analysis document, there are numerous topics relating to reproductive aging that need to be addressed. These include biology of reproductive aging, addressing genetic basis of primary ovarian insufficiency/early ovarian aging, maximizing IVF outcomes in the face of advance age, fertility preservation for non-medical indications/against reproductive aging, male reproductive aging, genetic screening methods in the face of reproductive aging. We have successfully conducted this course in 2019 which received high remarks from the participants. We have been repeatedly asked to have the course repeated both by those who were able to attend and who could not. We anticipate that this PG course will have even bigger success this year and will again receive excellent evaluations.

**Description**
Reproductive aging and its consequences affect a large segment of the population in both genders. Despite the significance consequences such as infertility, pregnancy losses, and chromosomal abnormalities, the knowledge on the mechanisms and potential treatments for reproductive aging is limited. The goals of this activity are to update practitioners on available laboratory and clinical remedies in addressing reproductive aging while providing insights into the areas of development. The lectures and discussions by the expert faculty will enhance the skills of the practitioners in dealing with clinical and laboratory challenges related to reproductive aging.

**ACGME Competency**
Medical Knowledge, Patient Care and Procedural Skills

**Learning Objectives**
At the conclusion of this course, participants should be able to:
1. Understand the mechanisms of gonadal aging
2. Recognize available laboratory and clinical remedies in addressing reproductive aging
3. Gain insights in to areas of development and research in reproductive aging.
Comprehensive Review of Genetic Carrier Screening: Genetic Counseling, Legal, and Physician Perspectives
Developed in cooperation with the Legal Professional Group (LPG), and the Genetic Counseling Professional Group (GCPG)

Faculty
Amy C. Vance, M.S., L.C.G.C. (Chair)
Susan Crockin, J.D.
Lauren Isley, M.S., C.G.C.
Jeanne E. O'Brien, M.D., M.Sc.

Target Audience
This interprofessional course is designed for physicians, advanced practice providers, nurses, practice managers, allied health providers, genetic counselors, mental health professionals, geneticists, attorneys.

Needs Assessment
Use of expanded carrier screening continues to provide challenges in the ART clinic including balancing the benefits and costs of testing, education regarding different genetic screening tests, risks and benefits with different panel sizes, need for improved understanding of platforms and the genes on the chosen panel, patient education and follow up. Although carrier screening is used routinely in ART practice, there continue to be ongoing struggles due to the complexity of genetic information and relative lack of education about genetics for most clinical staff. This need is supported by the below (pending publication in Fert Steril) abstract: GENETIC TESTING AND GENETIC COUNSELING FOR ANONYMOUS EGG DONORS: RESULTS FROM A SURVEY OF 21 CLINICS IN THE US SHOW CONTINUED NEED FOR GENETICS EDUCATION FOR PROVIDERS. Amy Vance, M.S., L.C.G.C., Bay Area Genetic Counseling, San Anselmo, CA and Tamara Tobias, ARNP, Seattle Reproductive Medicine, Bellevue, WA

Description
This course will provide a review of expanded carrier screening (clinical utility, size of panel, variant curation and need to re-contact, when is updated testing indicated), the difference between genetic carrier screening and direct to consumer testing, issues to consider when carrier testing identifies increased risk for disease, special issues to consider with gamete donors, RE perspectives on carrier testing, legal implications of carrier screening, case presentations, and an open forum-invitation to bring cases for discussion. At the end of the course, participants will be able to evaluate their own screening protocol and make adjustments as necessary.

ACGME Competency
Communication, Roles/Responsibilities, Teams and Teamwork, Values/Ethics, Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement, Systems-based Practice

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Gain a deeper understanding of expanded carrier screening.
2. Review ACOG/ASRM guidelines for carrier screening.
3. Understand the differences between clinical carrier screening and direct to consumer testing.
4. Become familiar with special issues with carrier screening for gamete donors.
5. Become familiar with examples of genes on carrier screening panels in which carriers can have symptoms and how to best handle these cases.
6. Recognize informed consent issues that can arise related to carrier screening.
7. Become familiar with legal aspects of carrier screening.
8. Assessment of standard of care and guidelines in ART regarding carrier screening and how this affects carrier screening choices.
9. Discuss different roles that the IVF physician can play in the delivery/management of genetic carrier screening results.
10. Gain tools to evaluate your screening protocol and make adjustments as necessary.
11. Recognize the value of the Genetic Counselor in carrier screening con
**A Critical Assessment of Invasive and Non-Invasive PGT**

**What's the Impact on ART?**

Developed in cooperation with the Preimplantation Genetic Testing Special Interest Group

**Faculty**
Kangpu Xu, Ph.D. (Chair)
Svetlana Rechitsky, Ph.D.
Carmen Rubio, Ph.D.
Manuel Viotti, Ph.D.

**Target Audience**
This inter-professional course is designed for physicians, embryologists, geneticists, and genetic counselors.

**Needs Assessment**
The ultimate challenge in embryology is to select a single genetically "normal" embryo with highest implantation potential for transfer in a fresh or FET cycle, which leads to the birth of a healthy baby from fertile couples with genetic predisposition, and subfertile or infertile couples who need assisted reproductive technology (ART). Preimplantation genetic testing (PGT) for aneuploidy (PGT-A), monogenic disorders (PGT-M) and structural rearrangements (PGT-SR) have been an effective modality through invasive procedures, polar body, cleavage or late preimplantation stage biopsy, in the last three decades. Latest development in minimum or non-invasive PGT (mi/niPGT) opens a new avenue to test the embryos with much less labor and at lower cost. Many questions remain for the embryology laboratories as well as for the genetic testing laboratories. When is the time to change their practice, coexisting or gradually replacing? What are the impact of the new approaches on various PGT indications? This course will focus and discuss these critical questions.

**Description**
This course will describe the latest methodologies and detailed data to give the participants a comprehensive reviews, and thus an understanding of the current development in the field of embryo selection by PGT. Specific details and the pros and cons of invasive and/ or non-invasive PGT will be presented. The limitations and future potential will also be discussed so that participants will learn and bring home the ideas regarding if and how to change their practice.

**ACGME Competency**
Medical Knowledge, Patient Care and Procedural Skills

**Learning Objectives**
At the conclusion of this course, participants should be able to:
1. Describe the general concept for embryo viability selection
2. Summarize the latest available methods for invasive and mi/niPGT
3. Define the benefits of PGT
4. Assess the pros and cons of invasive and mi/niPGT
5. Discuss the strategy for adapting the best embryo selection protocols.
Addressing Controversies in the Work up and Treatment of Recurrent Pregnancy Loss

Developed in cooperation with the Early Pregnancy Special Interest Group

Faculty
Kristin A. Bendikson, M.D. (Chair)
Paul Robert Brezina, M.D.
Winifred Mak, M.D., Ph.D.
Lia A. Bernardi, M.D.

Target Audience
This interprofessional course is designed for physicians, advanced practice providers, and nurses.

Needs Assessment
Recurrent Pregnancy Loss affects 1-5% of couples attempting pregnancy. The smaller number of patients impacted makes the analysis of appropriate diagnostic evaluations and treatments more challenging. While there are guidelines published by ESHRE and a best practices opinion published by ASRM, these published documents do not align in all recommendations. Both publications acknowledge the controversies that exist in both the work up and treatment of these types of patients. The difference in opinion in approach leads to varied practice patterns and patients receiving widely different clinical care dependent on whom they receive care from. There are six areas that have been identified where the largest controversies exist: testing of products of conception, testing for chronic endometritis, testing for other markers related to implantation and early pregnancy loss, genetic testing of embryos for aneuploidy, immunologic testing and treatment, and impact of patient health/nutrition/supplements on losses. This course addresses the following gaps in knowledge: health of the oocyte in recurrent pregnancy loss, lifestyle modifications and its potential impact on recurrent pregnancy loss, Genetic testing in couples with recurrent pregnancy loss and Lack of knowledge of alternative remedies to treat recurrent implantation failure.

Description
This course will address what the controversies in the diagnostic work up and treatment of patients with recurrent pregnancy loss are, exploring both sides to each topic. There will be an educational presentation on each topic. We will also be soliciting participation from the audience as we work through two case presentations and break the audience into groups to work together to come up with both diagnostic and treatment plans for the patient based on the lecture material, engaging the groups to compare their proposed plans and having audience members move around 'caucus' style to see the prevailing approaches.

ACGME Competency
Roles/Responsibilities, Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Identify and understand the controversies in the diagnostic work up of patients with recurrent pregnancy loss.
2. Identify and understand the controversies in the treatment of patients with recurrent pregnancy loss.
3. Prepare a diagnostic and treatment plan for a patient with recurrent pregnancy loss.
PG13  

**Tricks of the Trade: Small Things That Can Make a BIG Difference in the IVF Lab**  
Developed in cooperation with the Society of Reproductive Biologists and Technologists (SRBT)

**Faculty**  
Liesl Nel-Themaat, Ph.D., HCLD (Chair)  
Jacques Cohen, PhD, HCLD  
Joe Conaghan, PhD  
Debbie Venier, MS

**Description**  
The course will teach participants about the lab environment, what makes a difference and what doesn't, getting the most out of sperm specimens, maximizing success with conventional insemination, maximizing ICSI success using ancillary procedures, how to choosing a culture system, factors affecting FET success rates and when PGT makes sense. These topics will help lab professionals broaden their knowledge in these fundamental issues we address on a daily basis and help improve overall success rates.

**Target Audience**  
This course is designed for all reproductive lab staff (directors, embryologists and andrologists), as well as physicians, fellows, nurses and administrative staff who would like to learn more about lab procedures.

**Needs Assessment**  
Reproductive lab specialists are faced with a multitude of choices regarding the best way to perform procedures to optimize success rates. In addition to formal research and training, their global knowledge, including specific technical tips and tricks as well as lesser known ancillary procedures come from mainly two sources: (1) Historically inherited knowledge formed over years of experience in the minds of the pioneers as they figured things out during infancy of our field, and (2) New trainees coming into the workforce bringing new ideas and improving things anecdotally Although many such tricks and tips could be shared in person, they are not necessarily published in the literature, so few people benefit from them and such tricks may be lost over time.

**Learning Objectives**  
At the conclusion of this seminar, participants should be able to:

1. Identify areas to easily improve lab setup by making small changes.
2. Take home knowledge about procedures for maximizing sperm yield from various sources.
3. Maximize success rates following ICSI, including what to do after failed fertilization.
4. Understand the differences in various culture systems and the pros and cons of each, and make informed choices.
5. Make informed decisions about what factors could improve frozen embryo transfer success rates.
6. Understand when PGT is truly necessary and actually improves outcomes.
Challenges in Freeze All Embryos

Developed in cooperation with the Indian Special Interest Group, the Indian Society of Assisted Reproduction (ISAR), and the Indian Fertility Society (IFS)

Faculty
Narendra Malhotra, M.B.B.S., M.D. (Chair)
Jaideep Malhotra, M.B.B.S., M.D.
Sonia Malik, M.D.
Manish Bankar, M.D.

Target Audience
Gynecologist interested / practicing in IVF and Assisted Reproduction

Needs Assessment
Freezing all Embryos after a fresh cycle of Controlled Ovarian Stimulation (COS), followed by Embryo transfer in a thaw cycle, has become the norm for managing ART cycles in many Centers globally. It is known to offer better success rates compared to fresh cycles, especially if the cycles are over stimulated. By converting an IVF cycle into 2 segments, it increases the time spent by the couple in completing a cycle, plus the cost of the fresh and the thaw cycle. The fresh cycle includes the cost of ovarian stimulation, ovum pick up and freezing the prepared embryos. The thaw cycle includes preparing the endometrium, thawing the embryos, monitoring the endometrium under ultrasound control, all of which increases the overall cost of one attempt at Embryo transfer. It is valid to carry out the procedure in women who are hyper stimulated, in order to prevent harm to them, if they conceive. It also overcomes the endometrial embryo asynchrony which occurs in COS cycles. But is this concept necessary to follow in all fresh cycles of ART? The safety and effectiveness of this protocol has been studied and long term follow up of children born from frozen embryos is being evaluated.

Description
This Course will discuss the advantages and disadvantages of freezing embryos, when and why to freeze, safety measures to follow during Vitrification and storage, and discuss the current research associated with ‘the freeze all’ concept. The Course will discuss the latest data on frozen embryos, their success rates versus fresh embryos, the perinatal issues and long term complications in children after frozen versus fresh transfer. Safety issues related to freezing, thawing and other technologies such as embryo biopsy for PGT-A, assisted hatching etc. will also be discussed.

ACGME Competency
Practice-based Learning and Improvement

Learning Objectives
At the conclusion of this course, participants should be able to:
1. To discuss whether Freeze all cycle should be offered to all ART patients
2. To discuss the safety aspects of freezing, thawing, manipulating embryos
3. To review the possible long term complication in children born after frozen embryo transfer

Do you know a resident attending the Scientific Congress?

Participants in the ASRM Resident Education Program will attend a flipped-classroom, interactive learning session, led by experts in reproductive medicine and medical education (boxed lunch provided), and a related symposium.

This ASRM-sponsored program (no additional cost to participants) is open to the first 100 residents who opt in at the time they register for the Scientific Program using a dialogue box that will open during the registration process.

Questions? Email Sarah Ramaiah at sramaiah@asrm.org.
Male Infertility and ART: An Update on the Diagnosis, Treatment, and Optimization of ART Outcomes

Developed in cooperation with the Society for Male Reproduction and Urology (SMRU), and the Society of Reproductive Surgeons (SRS)

Faculty
R. Matt Coward, M.D. (Chair)
Ryan P. Smith, M.D.
Ranjith Ramasamy, M.D.
Akanksha Mehta, M.D.

Target Audience
Reproductive endocrinologists and infertility specialists, andrologists, embryologists, urologists, fellows and residents, advanced practice providers, and nurses who seek an in-depth understanding of the evaluation and treatment of the infertile male in optimizing outcomes within the modern ART practice, while focusing on case management and discussion, and serving as a comprehensive review in addressing the male fertility patient.

ACGME Competency
Communication, Roles/Responsibilities, Teams and Teamwork, Values/Ethics, Interpersonal and Communication Skills, Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement, Professionalism, Systems-based Practice

Needs Assessment
Approximately half of all infertile couples have a contributing or sole male factor etiology. While the utilization of assisted reproductive technology (ART) has steadily increased in recent years, only 20% of male partners in an infertile couple receive an evaluation. This concerning reality is most alarming given numerous recent studies linking male fertility with overall male health, including cardiovascular outcomes and the development of cancer. The role of the reproductive urologist in the modern ART practice is to diagnose serious or life-threatening conditions, identify and treat reversible causes of infertility, define untreatable causes of testis failure, and to perform sperm procurement procedures to enable IVF-ICSI. The careful evaluation and successful treatment of male factor infertility overall leads to optimization of ART outcomes.

Description
This course will present the latest clinical developments in male infertility. Attendees will learn the latest advancements in the medical management of the infertile male, including the controversies in idiopathic male infertility treatment. We will review methods for optimizing sperm prior to ART, discuss the management of varicocele in the era of ART, and present the methods sperm retrieval techniques. The course will highlight the role of the reproductive urologist in

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Describe the evaluation of male factor infertility and understand the potential associated health risks with its diagnosis
2. Summarize the latest medical and surgical treatments for the most common etiologies of male factor infertility
3. Understand how optimization of male factor infertility leads to improved ART outcomes.
4. Learn how to implement the integration of the male factor evaluation and treatment on-site within a modern ART practice.
A Review of Clinical and Laboratory Sperm Selection Technologies to Optimize ART Outcomes

Developed in cooperation with the Society for Male Reproduction and Urology (SMRU), and the Society of Reproductive Biologists and Technologists (SRBT)

Faculty
James Hotaling, M.D. (Chair)
Gianpiero D. Palermo, M.D., Ph.D.
Michael L. Eisenberg, M.D.
Jingtao Guo, Ph.D.

Target Audience
This interprofessional course is designed for physicians, embryologists, and andrologists.

Needs Assessment
50% of couple infertility is male factor with 10% of these with azoospermia and up to 25% with moderate or severe oligozoospermia. Although the advent of ICSI made paternity possible for these men there are still significant knowledge gaps in the field. Men with severe male factor infertility represent a difficult patient population to treat. Currently, most techniques available for sperm selection rely on visual identification of optimal sperm to use for the assisted reproductive technologies with IVF/ICSI. While some of these techniques rely on sperm motility, there are no technologies available to determine the ultimate reproductive potential of a sperm without destroying it. Currently, there are several options available for urologists and embryologists for sperm selection with multiple other technologies becoming widely available in the next several years. ASRM has identified gaps in knowledge related to options currently available for sperm selection in men with severe male factor as well as knowledge of what technologies will likely become available in the future. This course will review all of the current technologies available for sperm sorting, their indication, go over practical solutions for the embryologist and urologist and highlight new technologies that will shape the future of male infertility.

Description
This course will offer a summary of available sperm selection techniques and tools as well as the evidence supporting their indications. It will bring together world class experts to showcase, demonstrate and explain the rationale and data for a variety of techniques to process ejaculated and surgical sperm with the goal of optimizing sperm for ART. We will also review current technologies such as microfluidics, TESE to minimize the impact of DNA fragmentation, sperm processing techniques to maximize surgical sperm yield and a discussion of other technologies such as spermatogonial stem cell culture which have potential to transform the field.

ACGME Competency
Communication, Roles/Responsibilities, Teams and Teamwork, Values/Ethics, Interpersonal and Communication Skills, Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement, Professionalism, Systems-based Practice

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Understand the limitations of current sperm selection techniques
2. Describe the role of DNA fragmentation in workup of infertile men and role of TESE
3. Counsel patients about different microfluidic sperm sorting options
4. Outline what the future of sperm selection might hold
PG17  Cross-Border Family Building: Big Dreams, Small World

Developed in cooperation with the Society for Reproductive Endocrinology & Infertility (SREI), Legal Professional Group (LPG), Mental Health Professional Group (MHPG), and the Nurses' Professional Group (NPG)

Faculty
Kim Bergman, Ph.D. (Chair)
Will Halm, J.D.
Said Daneshmand, M.D.
Barbara Tanaka, N.P.

Target Audience
This course will address issues of concern for psychologists, nurses, reproductive endocrinologists, attorneys, practice managers and third-party agencies.

Needs Assessment
Since the United States has some of the most advanced fertility care in the world, many intended parents from outside the US will seek their care here. Intended parents who need third party assisted reproductive care often face legal, medical, financial, logistical and psychological risks and challenges. 2020 demonstrated how risky cross border family building can be and presented us a unique set of challenges. For example, in 2020 many Chinese intended parents have been unable to travel to the US to care for their babies born through US surrogacy and emergency sources of care have been required. The legal climate and in many countries makes family building arduous and complicated and third party assisted reproduction parenting via surrogacy, egg donation and sperm donation is unavailable and even illegal in many countries. And yet the wish for parenthood is universal and does not stop at borders. COVID-19 and Zika have presented unique medical and logistical challenges requiring practices to be nimble, innovative, and prepared. This multidisciplinary course will address and update the medical, psychosocial, ethical, practical and legal issues in treating incoming international patients and will offer direction to providers for how to establish best practices.

Description
Objectives: 1 Review the paths to parenthood for incoming international patients. 2 Identify challenges and ethical issues. 3 Develop best practices for incoming cross-border patient care 4 Explain the legal climate for international parents seeking care in US and legal path to parenthood. 5 Determine pitfalls and develop contingencies in cross-border care 6 Identify components of teamwork necessary for this care This course will address the multiple, unique treatment issues for international fertility patients that might expose them to increased psychological, legal and emotional risks.

ACGME Competency
Teams and Teamwork, Interpersonal and Communication Skills, Patient Care and Procedural Skills, Systems-based Practice

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Review the paths to parenthood for international patients seeking fertility and/or third party care in the US.
2. Identify challenges and ethical issues that need to be considered in incoming cross-border care.
4. Explain the legal climate for international patients seeking care in the US and the legal path to parenthood.
5. Determine pitfalls and develop contingencies in incoming cross-border care.
6. Identify the components of teamwork necessary for incoming cross-border reproductive care.
Vaginal Microbiome and Reproductive Health: From Research to Clinical Practice
Developed in cooperation with the Society for the Study of Reproduction (SSR)

Faculty
Charu Kaushic, Ph.D. (Chair)
Gregor Reid, Ph.D.
Douglas Kwon, M.D., Ph.D.
Kjersti M Aagaard, M.D., Ph.D.

Target Audience
Clinicians, basic scientists, trainees, health care professionals, geneticists, toxicologists, epidemiologists.

Needs Assessment
There is increasing evidence that dysbiosis of the vaginal microbiota and the related condition associated with clinical symptoms, bacterial vaginosis (BV), leads to adverse pregnancy outcomes and increased susceptibility to sexually transmitted infections, including HIV-1. BV is a difficult condition to treat, with over 50% of women having recurrence in less than 12 months, despite antibiotic treatment. New research showing that common lab-based methods to measure dysbiosis are not very accurate, that dysbiosis of vaginal microbiota leads to inflammatory environment in the genital tract leading to poor reproductive and sexual health outcomes. Clinicians and health care providers need to understand these and other new developments in the field of probiotics and their application in treatment for BV. This will enable application of evidence to clinical practice. This topic falls under the gap areas of optimal reproductive health in women, lifestyle modifications and their impact on recurrent spontaneous pregnancy loss and well as alternative remedies to treat recurrent implantation failure.

Description
The course is designed for clinicians and researchers in reproductive medicine, to enhance understanding on vaginal microbiome and its effects on reproductive health. Participants will be provided the latest information regarding the characteristics of vaginal microbiome, how colonization with specific types of bacteria has been associated with either positive outcomes of pregnancy or bacterial vaginosis, poor reproductive outcomes and increased incidence of sexually transmitted infections, including HIV-1. The speakers are international leaders in these topics and will review both basic information, clinical applications, and latest research, which the participants can apply in their own clinical practice and research.

ACGME Competency
Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Describe the latest information on the characteristics of vaginal microbiota, the community state types (CST), the bacteria associated with different CSTs, temporal dynamics, effect of hormonal status and ethnicity on the microbiome.
2. Analyse and contrast vaginal dysbiosis, clinical symptoms associated with BV, issues with current diagnostic methods, molecular techniques that allow distinction of BV from dysbiosis and the association of both with underlying inflammatory condition.
3. Describe the effects of alterations in vaginal microbiota and different CSTs on pregnancy outcomes such as pre-term birth and sexually transmitted infections, including HIV-1.
4. Critically assess the latest information on probiotics, their benefits versus risk to treat BV, improve outcomes of pregnancy and decrease risk of sexually transmitted infections.
Riding the Wave of Change: Keys to Success

Developed in cooperation with the Association of Reproductive Managers (ARM), Legal Professional Group (LPG), and the Mental Health Professional Group (MHPG)

Faculty
Danielle Soltesz, M.B.A., M.P.H. (Chair)
Mahshid Albrecht, M.B.A.
Deborah Guston, J.D.
Amelia Swanson, Ph.D.

Target Audience
This interprofessional course is designed for practice managers, nurses managers, physicians, legal professionals and mental health professionals.

Needs Assessment
In a world of constant change, organizational change management has become a critical component of every business plan and strategy. 2020 was a pivotal year for our industry with key issues faced including the COVID-19 Pandemic, Black Lives Matter movement and rapid industry consolidation. The global COVID-19 pandemic has challenged our industry to manage their enterprises in newfound ways. In the short term, they’re facing enormous scope changes to their business plans; in the long term, they must adapt and continue to make progress on their original goals. This interprofessional group will aim to give industry leaders a toolbox for managing change.

Description
This Postgraduate course aims to prepare leaders on change management. Specific topics include:
1. Managing Organizational Change
2. Metrics for Measuring Success in Change Management
3. I’m a Pandemic Survivor
4. Preparing for a Crisis
5. Telehealth Transition for Patients- How do you keep them connected to you remotely
6. Remote Working & Employee Engagement
7. Legal Aspects of Telehealth & Telework Environments
8. Tips to tackle workplace stress and encourage and motivate your employees.

ACGME Competency
Communication, Roles/Responsibilities, Teams and Teamwork

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Review and outline key components of Change Management
2. Outline critical components for patient engagement following a telehealth visit
3. Provide attendees tools for leaders to address a crisis
4. Identify key ways to engage your workforce in a remote work environment
5. Identify legal areas of concern for telehealth and telework environments
6. Identify ways to address workplace stress for your employees
Strategies to Improve the Safety of Controlled Ovarian Stimulation Protocols: Paving the Way for Ohss-Free IVF?
Developed in cooperation with the Middle East Fertility Society (MEFS)

Faculty
Johnny Awwad, M.D., H.C.L.D. (Chair)
Mohamed A. Aboulghar, M.D.
Peter Humaidan, M.D., Ph.D.
Juan A Garcia-Velasco, M.D., Ph.D.

Target Audience
This intermediate to advanced level interprofessional course is designed for physicians, advanced practice providers, nurses, ART allied health professionals, practice managers, embryologists, and scientists.

Needs Assessment
The use of GnRH agonists to trigger final oocyte maturation has gained momentum over the use of hCG in women at risk for OHSS. Because of the shorter agonist-induced LH surge, earlier demise of the corpus luteum yielded a reduction in OHSS at the peril of poor embryo implantation. Dissociating ovarian and endometrial events was therefore proposed to restore reproductive success without compromising safety. The success of cycle segmentation however is highly dependent on the performance of the cryopreservation program in place. For fresh embryo transfers, alternative strategies to improve the profoundly deficient luteal phase were suggested. The use of intensive hormonal supplementation has been inadequately investigated. Whether standardized or individualized protocols are more suitable in this context remain inconclusive. The administration of low dose hCG to prevent corpus luteum demise was met with improved success. These protocols are very heterogenous and differ in the dose and timing of hCG administration. Their safety when used in high responders has not been fully confirmed. Incidents of partial or complete failure of oocyte collection have also been reported after agonist triggering. Risk factors have been poorly explored, while preventive and corrective measures remain largely erratic.

Description
This course appraises the scientific evidence which evaluates the benefits and limitations of the use of GnRHa triggering strategies to improve the safety of controlled ovarian stimulation protocols. This course sheds the light on the physiologic effects of GnRHa triggering on luteal events. Emphasis will be on developing best practice models for an OHSS-free IVF clinic, while identifying knowledge gaps in GnRHa triggering research which require immediate attention through the proper design of high-quality basic and translational research. This course is designed using an interactive learning format which involves didactic lectures, case discussions and problem-solving of clinical vignettes.

ACGME Competency
Communication, Teams and Teamwork, Medical Knowledge, Patient Care and Procedural Skills, Practice-based Learning and Improvement

Learning Objectives
At the conclusion of this course, participants should be able to:
1. Design safer ovarian stimulation protocols tailored to patients’ individual characteristics; and counsel women undergoing controlled ovarian stimulation for IVF about the number of oocytes needed to optimize success without compromising safety.
2. Describe the physiological effects of GnRH agonist on LH surge characteristics, oocyte maturation, and follicular luteinization.
3. Design an intensive luteal support protocol to improve implantation of fresh embryos in GnRHa triggered IVF cycles; and demonstrate safety and efficacy in relation to patients’ endocrine profile and ovarian response.
4. Estimate the benefits and perils of LH luteal support for fresh embryo transfer after GnRHa triggering.
5. Identify risk factors associated with a compromised LH surge after GnRHa triggering, interpret markers that predict poor oocyte yield and maturation rates, and implement preventive and corrective measures.
6. Appraise OHSS risk associated with GnRHa triggering according to the
The editorial team at *Fertility and Sterility* is pleased to announce a special **Journal Club Global**
live from **The ASRM 2021 Scientific Congress & Expo**
to discuss a recently published article. This exciting event will be streamed live. Please join us live in Baltimore or register to watch online.

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**Discounted ASRM Membership for Reproductive Care Specialists in Low and Lower-Middle Income Countries**

| Residence in low-income countries: 75% discount |
| Residence in lower-middle income countries: 25% discount |

Individuals joining or renewing membership in ASRM that reside in low or low-middle income countries (as defined by the World Bank) now receive discount on ASRM membership!

Members receive online access to *Fertility and Sterility* and other society journals, free access to our extensive library of single ASRM airLearning™ modules, discounts on certificates courses and the ASRM Scientific Congress & Expo, and more!

**To join at a discounted rate:**

1. Go to www.asrm.org and log in to your ASRM account.
2. Click on the “My Account” tab and click the red “Join” button.
3. Choose the appropriate membership that includes the online journal.
4. Complete information and pay. (The discounted price will show at checkout.)
What you should know about the ASRM 2021 Scientific Congress & Expo

1. **Schedule changes!** Take a good look at the daily schedule for Monday, Tuesday, & Wednesday. You’ll see that Symposia have moved from the afternoon and are now from 1:30 pm to 2:45 pm!

2. **Additional schedule changes!** The Postgraduate Program, consisting of 20 diverse courses, will be fully on-demand once again this year. Separate registration is required for these, but you have access to the content from October 21st to December 31st! The only courses happening on-site will be limited capacity hands-on courses on Sunday, October 17th.

3. **Lunch** is a designated time, 12:15 pm - 1:15 pm, for either a ticketed lunchtime activity or for you to grab lunch and network with colleagues. Baltimore offers lots of local spots to enjoy close to the convention center!

4. **Check out our Roundtable discussions** – 35 Monday, 32 Tuesday, and 24 Wednesday!

5. Our fully interactive and very useful **meeting app** is a must-have for all Congress attendees. Complete your in-app profile and network with other attendees, locate your next in-person session easily with directions from where you are to where you need to be, and play the **Expo Passport Game** in the app while on-site at the Congress.

6. **Virtual Poster Wall** - to keep all in-person attendees and presenters safe, the poster sessions will be smaller this year. However, all posters will be available online on our virtual Poster Wall including audio for each poster & a place to ask questions of the poster authors!

7. **The President’s Gala** will be in-person on Sunday, October 17th. Tickets are $500 per person up to six individuals with all proceeds benefiting the ASRM Research Institute. Purchase your ticket at www.asrmcongress.org when you register for the Congress. For larger groups or table sales, contact Cara Dawn Byford at cbyford@asrm.org.
Use of Artificial Intelligence/Machine Learning to Develop Personalized Approaches to Improve Reproductive Health Outcomes

2021 NICHID-ASRM WORKSHOP

The Eunice Kennedy Shriver National Institute of Child Health and Human Development and The American Society for Reproductive Medicine

Needs Assessment and Description

Despite significant advances in live birth success rates using various forms of ART over the past few decades, further improvements may require the integration and mining of large datasets acquired through omics technologies to generate predictive algorithms. The purpose of this meeting is to present the current state of knowledge relative to the application of artificial intelligence (AI)/machine learning (ML) and precision medicine approaches to the practice of medicine with the goal of informing attendees on how to use AI/ML to develop personalized approaches to improve outcomes of infertile couples. While there is some activity which demonstrates the potential usefulness of AI/ML approaches to improve IVF success, greater emphasis is needed to apply and integrate AI and precision medicine to develop more effective strategies for improving outcomes of all patients seeking fertility treatments. The meeting sessions will focus on the use of AI/ML in other medical fields, AI/ML approaches to improve IVF outcomes, and 3) AI/ML, precision medicine and the future of reproductive medical practice. The sessions will be complemented by Keynote and Special Lectures.

Learning Objectives

At the end of this session, the audience members should be able to:

1. Discuss the current state of knowledge relative to artificial intelligence (AI), machine learning (ML), and precision medicine.
2. Recognize how AI and ML complement precision medicine when developing approaches to infertility and assessing IVF outcomes.
3. Consider how AI/ML and precision medicine can impact the future of reproductive medical practice.

The NICHID-ASRM Joint Meeting will be online instead of in-person. The NICHID will host this event on their platform. It will not be part of the ASRM On-Demand Congress. NICHID will send to each registrant a link and instructions to get into the event. NICHID-ASRM Joint Meeting registration is $50.
TICKETED EVENTS

Ticketed events listed in the daily schedule are marked with a icon.

**SUNDAY, OCTOBER 17, 2021**

- **Half-day Embryo Transfer Course**  
  (Limited in-person access only)

**DAILY**

- **Resident Learning Sessions**  
  Monday, Tuesday, and Wednesday  
  (Lunch provided • registration required)

**TUESDAY, OCTOBER 19, 2021**

- **7:00 am - 8:45 am**  
  Women’s Council Breakfast  
  $50 Fee

- **6:00 pm**  
  ASRM 2021 President’s Gala

**Tickets are $500 per person up to six individuals with all proceeds benefiting the ASRM Research Institute. Purchase your ticket at www.asrmcongress.org when you register for the Congress. For larger groups or table sales, contact Brynne MacCann at bmaccann@asrm.org.**

- **Roundtable Luncheons**  
  Monday, Tuesday, and Wednesday  
  12:15 pm - 1:15 pm  
  $60 Fee/day

- **See pages 66-71 for a list of roundtable titles and speakers**
Do you know a resident attending the Scientific Congress?

Participants in the ASRM Resident Education Program will attend a flipped-classroom, interactive learning session, led by experts in reproductive medicine and medical education (boxed lunch provided), and a related symposium.

This ASRM-sponsored program (no additional cost to participants) is open to the first 100 residents who opt in at the time they register for the Scientific Program using a dialogue box that will open during the registration process.

Questions? Email Sarah Ramaiah at sramaiah@asrm.org.

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**Hands-on Courses**

Limited Capacity/Pre-registration Required

**Embryo Transfer Skills Workshop**

(Hands-on Simulation)

**MORNING SESSION**

This half-day hands-on course titled “Embryo Transfer Skills Workshop” will include both lecture and hands-on simulation using the ASRM Embryo Transfer Simulator. The course will focus on perfecting embryo transfer techniques using models ranging in levels of difficulty.

Sunday, October 17, 2021
8:00 am – 12:00 pm

$295

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**Embryo Transfer Skills Workshop**

(Hands-on Simulation)

**AFTERNOON SESSION**

This half-day hands-on course titled “Embryo Transfer Skills Workshop” will include both lecture and hands-on simulation using the ASRM Embryo Transfer Simulator. The course will focus on perfecting embryo transfer techniques using models ranging in levels of difficulty.

Sunday, October 17, 2021
1:00 pm – 5:00 pm

$295
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<td>Opening Ceremony Breakfast 7:00 am - 7:45 am</td>
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<td>Opening Ceremony 7:45 am - 8:30 am</td>
<td>Pre-Plenary Special Session 8:00 am - 8:30 am</td>
<td>Plenary 5: Herbert Thomas Lecture 8:00 am - 8:45 am</td>
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<td>Opening Ceremony 8:30 am - 9:15 am</td>
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<td>ASRM Members' Meeting 8:45 am - 9:15 am</td>
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<td>Oral Abstract Sessions 10:45 am - 12:15 pm</td>
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<td>Scientific Congress Prize Papers 10:45 am - 12:15 pm</td>
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<td>Members' Meetings 5:45 pm - 8:00 pm</td>
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<td>ASRM President's Gala 6:00 PM</td>
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*Members’ Meetings 5:15 pm - 6:00 pm*

The schedule includes opening ceremonies, breakfasts, poster abstract sessions, plenary lectures, scientific congress prize papers, plenary sessions, transit times, roundtables, private members' meetings, hands-on courses, interactive sessions, and other events.
### Daily Schedule Key to Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>SART</td>
<td>Society for Assisted Reproductive Technology</td>
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<td>SMRU</td>
<td>Society for Male Reproduction and Urology</td>
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<tr>
<td>SRBT</td>
<td>Society of Reproductive Biologists and Technologists</td>
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<tr>
<td>SREI</td>
<td>Society for Reproductive Endocrinology and Infertility</td>
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<tr>
<td>SRS</td>
<td>Society of Reproductive Surgeons</td>
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<tr>
<td>ARM</td>
<td>Association of Reproductive Managers</td>
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<td>GCPG</td>
<td>Genetic Counseling Professional Group</td>
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<td>LPG</td>
<td>Legal Professional Group</td>
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<tr>
<td>MHPG</td>
<td>Mental Health Professional Group</td>
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<td>NPG</td>
<td>Nurses’ Professional Group</td>
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<td>ATCSIG</td>
<td>Access to Care Special Interest Group</td>
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<td>AESIG</td>
<td>Androgen Excess Special Interest Group</td>
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<tr>
<td>CIMSIG</td>
<td>Complementary and Integrative Medicine Special Interest Group</td>
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<td>CFPSIG</td>
<td>Complex Family Planning Special Interest Group</td>
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<td>ChSIG</td>
<td>Chinese Special Interest Group</td>
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<td>EndoSIG</td>
<td>Endometriosis Special Interest Group</td>
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<td>EPSIG</td>
<td>Early Pregnancy Special Interest Group</td>
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<td>ERSIG</td>
<td>Environment and Reproduction Special Interest Group</td>
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<td>FPSIG</td>
<td>Fertility Preservation Special Interest Group</td>
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<td>FSIG</td>
<td>Fibroids Special Interest Group</td>
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<td>HDSIG</td>
<td>Health Disparities Special Interest Group</td>
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<td>ISIG</td>
<td>Indian Special Interest Group</td>
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<td>IRMSIG</td>
<td>Imaging in Reproductive Medicine Special Interest Group</td>
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<td>LGBTQSIG</td>
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<td>MOISIG</td>
<td>Menopause and Ovarian Insufficiency Special Interest Group</td>
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<td>NutriSIG</td>
<td>Nutrition Special Interest Group</td>
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<td>PAGSIG</td>
<td>Pediatric and Adolescent Gynecology Special Interest Group</td>
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<td>PGTSIG</td>
<td>Preimplantation Genetic Testing Special Interest Group</td>
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<td>PSSIG</td>
<td>Physician-Scientists’ Special Interest Group</td>
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<td>Reproductive Immunology Special Interest Group</td>
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<td>Regenerative Medicine and Stem Cell Biology Special Interest Group</td>
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<td>Uterine Transplant Special Interest Group (Forming)</td>
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<td>AE-PCOS Society</td>
<td>Androgen Excess and Polycystic Ovary Syndrome Society</td>
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<td>ALMER</td>
<td>Latin American Association for Reproductive Medicine</td>
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<td>AMMR</td>
<td>Mexican Association of Reproductive Medicine</td>
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<td>Asia Pacific Initiative in Reproduction</td>
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<td>CFAS</td>
<td>Canadian Fertility and Andrology Society</td>
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<td>CSRM</td>
<td>Chinese Society of Reproductive Medicine</td>
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<td>European Society of Human Reproduction and Embryology</td>
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<td>Indian Society for Assisted Reproduction</td>
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<td>Japan Society of Assisted Reproduction</td>
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<td>MEFS</td>
<td>Middle East Fertility Society</td>
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<td>SSR</td>
<td>Society for the Study of Reproduction</td>
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### Needs Assessment and Description

The theme of the 2021 Scientific Congress of the American Society for Reproductive Medicine is “Reproduction Reimagined.” The scope of reproductive medicine is broad ranging from puberty to menopause, including males and females, while having a focus that is both molecular and macroscopic. The program is balanced between science at the cellular level and application of reimagining reproduction in using cutting edge information in the clinical care of patients to promote positive outcomes for families. This live program is designed for physicians, nurses, andrology and embryology laboratory personnel, genetic counselors, social workers, practice and laboratory managers, as well as specialists in mental health, law, and ethics to advance exemplary medical care and disseminate cutting-edge research. These goals will be addressed by a wide array of educational activities.

The CME/CE portion of the Scientific Congress will include plenary, lectures, symposia, and interactive sessions interweaving the theme of the annual Congress. Plenary lectures will feature exceptional speakers covering a wide range of themes in reproductive medicine including: a supportive physiologic environment for the extreme premature infant, compelling evidence that collaboration with qualified male reproductive urologists improves ART outcomes, new frontiers in contraception research, genetic basis of meiotic catastrophe, applications of nuclear transplantation in reproductive medicine, past and future IVF, and a history of and future for endometriosis surgery. Congress symposia will provide more in-depth coverage of basic and clinical subjects. Topics range from a wide variety of interests including: reimagining the future of male reproductive medicine in the age of teledmedicine and beyond, SART-CORS registry, educating the modern day REI nurse, addressing systemic inequities in reproductive healthcare, reimagining reproductive counseling and treatment in an era of uncertainty; pandemic impacts on fertility care, long-term storage of germplasms at room temperature, multidisciplinary and collaborative approach to endometriosis, PGT yesterday, today, and tomorrow, neonatal programming and lessons from the lactocline hypothesis, the impact of private equity on the fertility industry, managing the age related DOR patient, endometriosis: mechanism, endometrial receptivity and infertility, demystifying pelvic pain in adolescent females, regenerative medicine as the new frontier in ART, natural killer cell-mediated immune pathology and reproductive failures, nPGT-A for embryo prioritization, management of patients with serious medical problems, the task to increase diversity in subspecialty REI training, artificial intelligence (AI) in the IVF laboratory, transgender youth: navigating parents, peers, and society while envisioning future family planning, what we have learned from catastrophic events, the environment affects more than the ice caps, epigenetic/genomic anomalies in oocytes/embryos: current insights and clinical implications, fertility preservation for women and girls with POI, and medical and surgical management of adenomyosis and infertility.

The interactive sessions cover a wide range of stimulating topics and are meant to be a forum for discussion and interaction, including topics such as, open identity gamete donation, evidenced based selection of ovarian stimulation protocols for fertility preservation, integrating the reproductive urologist within an ART practice, PGT-A for pregnancy loss prevention, case presentations on hormone therapy for POI and menopause, reimagining patient education with the use of social media, Asherman’s syndrome, diversity, equity and inclusion task force, vaginal microbiome is emerging as a key factor in reproductive health, optimize outcomes for the infertility patient with PCOS, video surgical tutorial on repair of c-section scar defects, strategies for a successful career, reimagining complex needs of ovarian insufficiency and creating the ultimate reproductive team, oncofertility and sperm cryopreservation during the COVID-19 pandemic, chat with journal editors, let’s talk legal, 3D SIS or hysteroscopy for uterine cavity evaluation, transferring segmental aneuploidy embryos safe, Baltimore IVF history, increasing access to third party reproduction, to ICSI all or not, varicocelectomy in the management of male factor infertility, core business principles, endometrial receptivity and ART outcomes, addressing mental health for patients with pregnancy loss, contemporary management of Turner syndrome, patient perspectives and advocacy for black women facing infertility, complex family planning, dietary patterns, new AUA/ASRM infertility guidelines, and ASRM Mullerian anomaly classification. Supplementing the CME/CE program will be non-CME/CE events including roundtable luncheons and Expert Encounters that will provide opportunities for in-depth discussion with experts in small-group settings as well as oral and poster scientific abstract presentations that enable investigators to present cutting-edge scientific research in reproductive medicine and biology. Included in the diverse program are “tracks” for specialty and interest areas to enable participants to focus on specific topics and identify areas to expand their knowledge. The 2021 Scientific Congress should provide ample opportunity for learning, improvement of clinical competence, and reimagining reproduction for the future of family fertility care.

### Learning Objectives

At the conclusion of the Scientific Congress, participants should be able to:

1. Propose appropriate treatments for reproductive dysfunctions in females and males at different ages throughout life—childhood, adolescence, adulthood, and reproductive senescence.
2. Summarize how the extensive range of reproductive technologies from the cellular level to clinical application using collaborative teams impact infertility and fertility preservation.
3. Discuss current knowledge of endometriosis, fibroids, adenomyosis, contraception, and polycystic ovary syndrome.
4. Explain the relevance of genetics and genomics to reproductive care.
5. Describe the ethical, legal, and psychosocial ramifications of third-party reproduction.
6. Review the latest scientific advances in embryo biology and assessment to the optimization of embryo transfer.
7. Apply strategies that simplify technology, reduce costs, and broaden accessibility.

### ACGME Competencies

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<tr>
<th>Interpersonal and communication skills</th>
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<tbody>
<tr>
<td>Medical knowledge</td>
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<tr>
<td>Patient care</td>
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<td>Practice-based learning and improvement</td>
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<td>Professionalism</td>
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<td>Systems-based practice</td>
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### Interprofessional Competencies

| Values/ethics for interprofessional practice |
| Roles/responsibilities                     |
| Interprofessional communication            |
| Teams and teamwork                         |
SUNDAY, OCTOBER 17, 2021

8:00 AM – 12:00 PM
Embryo Transfer Skills Workshop (Hands-on Simulation)
Morning session

1:00 PM – 5:00 PM
Embryo Transfer Skills Workshop (Hands-on Simulation)
Afternoon session

6:00 PM
ASRM 2021 President’s Gala
Benefiting the ASRM Research Institute

11:00 AM – 12:00 PM
Clinical Session
MHGP Clinical Session: Psychological and Medical
Experiences of Compensated Gestational Carriers in the U.S.
Angela K. Lawson, Ph.D. (Chair)
Northwestern University
Guy E. Ringler, M.D.
California Fertility Partners
Janelle Watson, LMFT, PMH-C
California Fertility Partners

12:20 PM – 1:20 PM
Roundtable Discussions
RTM01 – RTM35

1:30 PM – 2:45 PM
Symposium
Reimagining the Future of Male Reproductive Medicine in the
Age of Telemedicine and Beyond
James Smith, M.D. (Chair)
University of California, San Francisco
James M. Dupree, IV, M.D., M.P.H.
University of Michigan
Tolu Bakare, M.D.
UT Southwestern Medical Center

1:30 PM – 2:45 PM
Symposium
The ABOG Foundation – Kenneth J.
Ryan Ethics Symposium: Reimagining Reproductive Counseling and
Treatment in an Era of Uncertainty: Pandemic Impacts on Fertility Care
Supported by a 2013 endowment from the American Board of Obstetrics and Gynecology
Louise Perkins King, M.D., J.D. (Chair)
Affiliation not provided
Enrique F Schisterman, Ph.D.
National Institute of Child Health and Human Development, Epidemiology Branch, DIPHR, NICHD, NIH
Neil Silverman, M.D.
University of California, Los Angeles

1:30 PM – 2:45 PM
Symposium
Symposium on Long-Term Storage of Germplasms at Room Temperature -
the End of the Ice Age
Pierre Comizzoli, D.V.M., Ph.D. (Chair)
Smithsonian Institution
Allison Hubel, Ph.D.
Smithsonian Institution
Pasqualino Loi, Ph.D.
Smithsonian Institution
Patrizio Pasquale, M.D., M.B.E., H.C.L.D.
University Hospitals Cleveland Medical Center/Case Western Reserve University

1:30 PM – 2:45 PM
Symposium
The Impact of Private Equity on the Fertility Industry
Brad Senstra, M.H.A. (Chair)
Seattle Reproductive Medicine
Derek Larkin, J.D., M.B.A.
Seattle Reproductive Medicine
Peter Klatsky, M.D.
In Vitro Sciences

MONDAY, OCTOBER 18, 2021

7:00 AM – 7:45 AM
Continental Breakfast

7:45 AM – 8:30 AM
ASRM2021 Opening Ceremony
Hugh S. Taylor, M.D.
Yale University School of Medicine

8:30 AM – 9:15 AM
Plenary
President’s Guest Plenary Lecture: TBD
Endowed by a 1987 grant from Ortho Women’s Health
Jennifer Doudna, Ph.D.
University of California, Berkeley

9:15 AM – 10:00 AM
Plenary
Plenary Lecture: Big Data for Health and Pregnancy
Endowed by a 1990 grant from TAP Pharmaceutical
Michael Snyder, Ph.D.
Stanford University

11:00 AM – 12:00 PM
Symposium
The ABGG Foundation – Kenneth J.
Ryan Ethics Symposium: Reimagining Reproductive Counseling and
Treatment in an Era of Uncertainty: Pandemic Impacts on Fertility Care
Supported by a 2013 endowment from the American Board of Obstetrics and Gynecology
Louise Perkins King, M.D., J.D. (Chair)
Affiliation not provided
Enrique F Schisterman, Ph.D.
National Institute of Child Health and Human Development, Epidemiology Branch, DIPHR, NICHD, NIH
Neil Silverman, M.D.
University of California, Los Angeles

1:30 PM – 2:45 PM
Symposium
PGT Yesterday, Today, and Tomorrow
Mark Hughes, Ph.D. (Chair)
CooperGenomics
James A. Grifo, M.D., Ph.D.
NYU Langone Prelude Fertility Center
Mike Large, Ph.D.
CooperSurgical

1:30 PM – 2:45 PM
Symposium
Sympoia Society for the Study of Reproduction (SSR) Symposium:
Beyond Barker: Neonatal Programming & Lessons from the
Lactocrine Hypothesis
Frank (Skip) F. Bartol, M.S., Ph.D. (Chair)
Alumni Professor & Associate Dean for Research and Graduate Studies
Carole A. Bagnell, Ph.D.
Alumni Professor & Associate Dean for Research and Graduate Studies
1:30 PM – 2:45 PM Symposium
Multidisciplinary and Collaborative Approach to Endometriosis in Fertility
Rebecca Flyckt, M.D. (Chair)
University Hospitals Cleveland Medical Center/Case Western Reserve University
Kathleen Hwang, M.D.
University Pittsburgh, Urology
Horace Roman, M.D., Ph.D.
Clinique Bouchard-Elsan

1:30 PM – 2:45 PM Symposium
SART-CORS Registry: The State of the ART
Amanda Nicole Kallen, M.D. (Chair)
Yale University
Jennifer F. Kawwass, M.D.
Emory University School of Medicine, Division of Reproductive Endocrinology and Infertility
Stacey A. Missmer, Sc.D.
Harvard T.H. Chan School of Public Health

1:30 PM – 2:45 PM Symposium
Knowledge Is Power: Educating the Modern Day REI Nurse
Jennifer M. Wood, R.N., B.S.N. (Chair)
Shady Grove Fertility
Jeanette Tomasino, Ph.D.
Northwell Health Fertility, Zucker School of Medicine at Hofstra/Northwell
Fady I. Sharara, M.D.
George Washington University
Allison B. Catherino, Ph.D.
EMD Serono, Inc.

1:30 PM – 2:45 PM Symposium
With (Reproductive) Justice for All: Addressing Systemic Inequities in Reproductive Healthcare
Danielle Kaplan, Ph.D. (Chair)
NYU Langone
Rachael Bailey, J.D.
Independent Practice
Angela Bethwa-Walsh, Ph.D.
Academy of Adoption and Assisted Reproduction Attorneys

3:00 PM – 3:45 PM Plenary
The David and Rosemary Adamson Lecture on Excellence in Reproductive Medicine: A Supportive Physiologic Environment for the Extreme Premature Infant, Progress and Future Application
Endowed by Advanced Reproductive Care, Inc. and Rosemary and David Adamson, M.D.
Alan W. Flake, M.D., F.A.C.S., F.A.A.P.
CHOP Research Institute

3:00 PM – 3:45 PM Plenary
American Urological Association (AUA) Bruce Stewart Memorial Lecture: Compelling Evidence that Collaboration with Qualified Male Reproductive Urologists Improves ART Outcomes
Supported by a grant from the American Urological Association
Marc Goldstein, M.D.
Weill Cornell Medicine, New York Presbyterian Hospital

4:30 PM – 5:30 PM Interactive Session
Hormone Therapy for Primary Ovarian Insufficiency and Menopausal Symptoms: Case Presentations
Jessica B. Spencer, M.D., M.Sc. (Chair)
Emory University School of Medicine, Department of Gynecology and Obstetrics
Satu Kuokkanen, M.D., Ph.D.
Albert Einstein College of Medicine
Lubna Pal, M.B.B.S.
Yale University

4:30 PM – 5:30 PM Interactive Session
Snap, Tweet, Tok! Reimagining Patient Education with the Use of Social Media
Temeka Zore, M.D. (Chair)
Natalie M. Crawford, M.D., M.S.C.R.
Aspire Fertility Austin
Jasmine Johnson, M.D.
Aspire Fertility Austin

4:30 PM – 5:30 PM Interactive Session
Open-Identity Gamete Donation: What Are the Children Saying?
Kriston Ward, M.S.N. (Chair)
Strong Fertility Center
Jennifer Gamper, B.S.N., M.S.W.
Strong Fertility Center
Greg Moga, B.A., J.D.
RMANJ
Wendy Kramer, B.A.
Donor Sibling Registry
Gina Davis, M.S., L.C.G.C.
Advocate Genetics

4:30 PM – 5:30 PM Interactive Session
Evidence Based Selection of Ovarian Stimulation Protocols for Fertility Preservation
Kutluk H. Oktay, M.D., Ph.D. (Chair)
Yale University School of Medicine
Clara Gracia, M.D., M.S.C.E.
University of Pennsylvania, Division of Reproductive Endocrinology and Infertility
Kenny A. Rodriguez-Wallberg, M.D., Ph.D.
Karolinska University Hospital
4:30 PM – 5:30 PM
Interactive Session
The Vagina Dialogues: How the Vaginal Microbiome Is Emerging As a Key Factor in Reproductive Health
Anne E. Burke, M.D., M.P.H. (Chair)
Johns Hopkins University School of Medicine
Michelle Shardell, Ph.D.
University of Maryland School of Medicine
Susan Tuddenham, M.D.
University of Maryland School of Medicine

4:30 PM – 5:30 PM
Interactive Session
Diversity, Equity and Inclusion Task Force Townhall: Make Your Voice Heard!
Tia Jackson-Bey, M.D., M.P.H. (Chair)
University of Illinois at Chicago, College of Medicine

4:30 PM – 5:30 PM
Interactive Session
Integrating the Reproductive Urologist within the Modern ART Practice
Cigdem Tanrikut, M.D. (Chair)
Shady Grove Fertility
Thomas L. Toth, M.D.
Boston IVF
S. Puneet Masson, M.D.
Penn Medicine

4:30 PM – 5:30 PM
Interactive Session
Asherman’s Syndrome: Surgery vs. Gestational Carrier/Surrogacy
Samantha Pfeifer, M.D. (Chair)
Weill Medical College of Cornell University
Zaraq Khan, M.D.
Mayo Clinic
Carlos Simon, M.D., Ph.D.
University of Valencia; Igenomix Foundation-INCLIVA

TUESDAY, OCTOBER 19, 2021

7:00 AM – 8:45 AM
Women’s Council Breakfast

8:00 AM – 8:30 AM
Plenary
Pre-Plenary Lecture: Uncovering the Molecular Determinants of Successful Implantation in the Human Blastocyst
Heidi Cook-Andersen, M.D., Ph.D.
University of California, San Diego

8:30 AM – 9:15 AM
Plenary
Camran Nezhat, M.D. Lectureship in Innovations in Medicine: In Vitro Gametogenesis: Considerations for Reversing Infertility
Endowed by a 2011 Gift from Camran Nezhat, M.D. Dr. Camran Nezhat pioneered techniques of video-assisted endoscopic surgery, which revolutionized modern day surgery. He along with his brothers, Drs. Farr and Ceana Nezhat, performed some of the most advanced procedures with these techniques for the first time, thus opening the vistas for endoscopic surgeons all over the world. Amander T. Clark, Ph.D.
University of California, Los Angeles

9:15 AM – 10:00 AM
Plenary
Plenary Lecture: Stem Cell-Derived Gametes — How They May Change Human Reproduction
Endowed by a 1990 grant from Astra-Zeneca
Henry T. Greely, J.D.
Stanford University

10:45 AM – 12:15 PM
Interactive Session
Repair of Cesarean Section Scar Defects: Hysteroscopic Vs. Laparoscopic Approach
Steven R. Lindheim, M.D., M.M.M. (Chair)
Wright State University
Balasubramanian Bhagavath, M.B.B.S.
University of Rochester Medical Center
Charles E. Miller, M.D.
The Advanced Gynecologic Surgery Institute/The Advanced IVF Institute, Charles E. Miller, M.D. & Associates

11:00 AM – 12:00 PM
Clinical Session
NPG Clinical Session – Preparation for the Nurse Certificate Course in REI and Beyond – Day 2
Erin Ann Yontz, B.A., M.S.N. (Chair)
AllianceRX Walgreen Prime
Lauri D. Black, M.S., C.G.C.
Pacific Reproductive Genetic Counseling

12:20 PM – 1:20 PM
Roundtable Discussions
RTT01 – RTT32

1:30 PM – 2:45 PM
Symposium
The Ticking of the Clock: Managing the Age-Related DOR Patient
Hayley Eichlin, D.N.P., A.P.R.N., W.H.N.P-BC. (Chair)
RMANJ
Sheri Hovdestad, M.A., L.P.C., N.N.C.C.
IVI-RMA Global
1:30 PM – 2:45 PM
Symposium
Endometriosis: Mechanism, Endometrial Receptivity and Infertility
Qing Xue, M.D., Ph.D. (Chair)
Peking University First Hospital
Jae-Wook Jeong, Ph.D.
Michigan State University
Meirong Du, Ph.D.
Fudan University Shanghai Medical College

1:30 PM – 2:45 PM
Symposium
Representations Matter: The Task to Increase Diversity in Subspecialty REI Training
Mia Mallory, M.D., M.Ed. (Chair)
John Hopkins Medicine
Gloria Richard-Davis, M.D.
University of Arkansas Medical Sciences
Sherita Hill Golden, M.D., M.H.S.
John Hopkins Medicine

1:30 PM – 2:45 PM
Symposium
“IT’s All in Her Head.” or Not?! Demystifying Pelvic Pain in Adolescent Females
Alla Vash-Margita, M.D. (Chair)
Yale University School of Medicine
Lauren Fussner, Ph.D.
Yale University School of Medicine
Leonel Rodriguez, M.D., M.S.
Yale University School of Medicine

1:30 PM – 2:45 PM
Symposium
KY Cha Symposium in Stem Cell Technology and Reproductive Medicine: Regenerative Medicine as the New Frontier in ART
Supported by the Asia-Pacific Biomedical Research Foundation
T. Arthur Chang, Ph.D., H.C.L.D., E.L.D. (Chair)
University of Texas Health Science Center
Shoukrat Mitalipov, Ph.D.
Oregon Health & Science University
Monica M Laronda, Ph.D.
Stanley Manne Children’s Research Institute, Ann & Robert H. Lurie Children’s Hospital of Chicago

1:30 PM – 2:45 PM
Symposium
Artificial Intelligence (AI) in the IVF Laboratory
Danielle Soltesz, M.B.A., M.P.H. (Chair)
Alan B. Copperman, M.D.
Reproductive Medicine Associates of New York, Icahn School of Medicine at Mount Sinai
Richard Silkin, B.A., T.S.(ABB), C.L.T.(NYS)
Reproductive Medicine Associates of New York

1:30 PM – 2:45 PM
Symposium
Natural Killer Cell-Mediated Immune Pathology and Reproductive Failures
Joanne Kwak-Kim, M.D., M.P.H. (Chair)
Reproductive Medicine and Immunology, Chicago Medical School, Rosalind Franklin University of Medicine and Science
Atsushi Fukui, M.D., Ph.D.
Hyogo College of Medicine
Warren J Huber III, M.D., Ph.D.
Warren Alpert Medical School of Brown University; Women & Infants Hospital

1:30 PM – 2:45 PM
Symposium
From the Lab to the Clinic: nPGT-A for Embryo Prioritization
Alyssa Snider, M.S., Ph.D., C.G.C. (Chair)
Igenomix
Erin Barone, M.S., G.C.
Igenomix
Nina Reshetkova, M.D., M.B.A.
Beth Israel Deaconess Medical Center/Harvard Medical School

1:30 PM – 2:45 PM
Symposium
Challenging IVF: Management of Patients with Serious Medical Problems
Aylin P. Cil, M.D. (Chair)
American Hospital
Samir Babayev, M.D.
Yale University School of Medicine
Carl A. Laskin, M.D., FRCPC
University of Toronto

1:30 PM – 2:45 PM
Symposium
Placing Endometriosis on the Global Health Agenda: A Joint WHO-ASRM Symposium
G. David Adamson, M.D. (Co-chair)
Stanford University
Valerie Flores, M.D. (Co-chair)
Yale School of Medicine
James N. Kiarie, M.D.
World Health Organization
Stacey Missmer, Sc.D.
Michigan State University
Sylvia Mechsner, M.D.
Charite University
Kelechi Nnoaham, M.D., Ph.D.
Public Health Foundation of Nigeria
Hugh S. Taylor, M.D.
Yale School of Medicine

3:00 PM – 3:45 PM
Plenary
Contraception Keynote Lecture: New Frontiers in Contraception Research
Regine Sitruk-Ware, M.D.
Eastern Virginia Medical School

3:00 PM – 3:45 PM
Plenary
The Society for the Study of Reproduction (SSR) Keynote Lecture: Genetic Basis of Meiotic Catastrophe: From Mice to Men
P. Jeremy Wang, M.D., Ph.D.
University of Pennsylvania

4:30 PM – 5:30 PM
Interactive Session
Academic Medicine Boot Camp: Strategies for Developing a Successful Career
William Catherino, M.D., Ph.D. (Chair)
Uniformed Services University for the Health Sciences
Sara S. Morelli, M.D., Ph.D.
University Reproductive Associates
4:30 PM – 5:30 PM
Interactive Session
Reimagining the Complex Needs of Ovarian Insufficiency and Creating the Ultimate Reproductive Team
Kelly Lee Whiteside, L.Ac., MSOM, F.A.B.O.R.M. (Chair)
Fertility Centers of Illinois
Jennifer E. Hirshfeld-Cytron, M.D.
Fertility Centers of Illinois
Elizabeth Anne Grill, Psy.D.
Weill Cornell Medical College

4:30 PM – 5:30 PM
Clinical Session
MHPG Clinical Session: Testing - A Therapeutical Assessment Model in the Psychological Screening of Gestational Carriers
Mary P. Riddle, Ph.D. (Chair)
Penn State University
Miranda Montrone, M.A.
Penn State University

4:30 PM – 5:30 PM
Interactive Session
Where Are the Brown Eggs?: Increasing Access to and Utilization of Third Party Reproduction
Jerrine R. Morris, M.D., M.P.H. (Chair)
University of California, San Francisco, Department of Obstetrics and Gynecology
Heather G. Huddleston, M.D.
University of California San Francisco
Jerisa Berry, M.D.
University of California San Francisco

4:30 PM – 5:30 PM
Interactive Session
Oncofertility and Sperm Cryopreservation during the Global COVID-19 Pandemic
Robert E. Brannigan, M.D. (Chair)
Northwestern University Feinberg School of Medicine
Joshua A. Halpern, M.D., M.S.
Northwestern University Feinberg School of Medicine
Dolores J. Lamb, Ph.D.
Weill Cornell Medical College

4:30 PM – 5:30 PM
Interactive Session
Chat with Journal Editors: Good Scientific Publication, Manuscript Review, and Editorial Process
T. Arthur Chang, Ph.D., H.C.L.D., E.L.D. (Chair)
University of Texas Health Science Center
David F Albertini, Ph.D., M.S. (Chair)
Center for Human Reproduction
Alexander M. Quaas, M.D., Ph.D.
University of California San Diego
Richard J. Paulson, M.D., M.S.
Keck School of Medicine of the University of Southern California
Denny Sakkas, Ph.D.
Boston IVF

4:30 PM – 5:30 PM
Interactive Session
PGT-a: Is Transferring Segmental (full or mosaic, large or small) Aneuploid Embryos Safe
Kangpu Xu, Ph.D. (Chair)
Weill Cornell Medical College of Cornell University
Valerie L Baker, M.D. (Chair)
Johns Hopkins University School of Medicine, Division of Reproductive Endocrinology and Infertility
Mousa Shamonki, M.D.
Fertility and Surgical Associates of California
Ann Carlson, M.S., C.G.C.
Weill Cornell Medical College of Cornell University

4:30 PM – 5:30 PM
Interactive Session
To ICSI ALL or NOT to ICSI ALL: That's the Question!
Liesl Nel-Themaat, Ph.D., H.C.L.D. (Chair)
University of Colorado Anschutz Medical Campus
Mitchel C. Schiewe, Ph.D., H.C.L.D.
Ovation Fertility
David H. McCulloh, PhD.
NYU Grossman School of Medicine
Caroline McCaffrey, Ph.D.
NYU Langone Fertility Center
William Venier, M.Sc., E.L.D. (ABB)
San Diego Fertility Center

WEDNESDAY, OCTOBER 20, 2021

8:00 AM – 8:45 AM
Plenary Session
Herbert H. Thomas Plenary Lecture: Applications of Nuclear Transplantation in Reproductive Medicine
Endowed by a 1992 grant from EMD Serono, Inc.
Shoukhrat Mitalipov, Ph.D.
Oregon Health & Science University
8:45 AM – 9:15 AM
ASRM 2021 Members’ Business Meeting

9:15 AM – 10:00 AM
Plenary
Plenary: Past and Future of IVF
Endowed by a 1992 grant from Wyeth
Eli Y. Adashi, M.D.
The Warren Alpert Medical School
Elizabeth Carr

11:00 AM – 12:00 PM
Clinical Session
NPG Clinical Session – Preparation for the Nurse Certificate Course in REI and Beyond – Day 3
Lisa A. Rinehart, R.N., J.D. (Chair)
Legal Care Consulting
Shannon M. Lighton, B.S.N., M.S.N.
Legal Care Consulting, Inc.
Jamie Walsh, R.N., B.S.N.
Legal Care Consulting, Inc.

11:00 AM – 12:00 PM
Clinical Session
MHPG Clinical Session: Ethics Course: Reproductive Healthcare Ethic and Challenges in Modern Times
Alice D. Domar, Ph.D. (Chair)
Boston IVF
Elizabeth Anne Grill, Psy.D.
Weill Cornell Medical College
Kim Bergman, Ph.D.
Growing Generations

12:20 PM – 1:20 PM
Roundtable Discussions
RTW01 – RTW24

1:30 PM – 2:45 PM
Symposium
Surrogacy and the Modern Family: Medical, Ethical and Emotional Challenges of Complex Gestational Surrogacy Cases
Mark Schiff, M.A. (Chair)
Reproductive Medicine Associates of Connecticut
Mark Leonaires, M.D.
Reproductive Medicine Associates of Connecticut
Lisa Schuman, M.S.W.
Reproductive Medicine Associates of Connecticut

1:30 PM – 2:45 PM
Symposium
The Environment: It Affects More Than the Ice Caps!
Linda C. Giudice, M.D., Ph.D. (Chair)
Washington State University
Patricia Hunt, Ph.D.
Washington State University
Dean E. Morbeck, Ph.D., M.B.A.
Fertility Associates, Auckland

1:30 PM – 2:45 PM
Symposium
Adenomyosis and Infertility: Medical and Surgical Management Strategies
Linnea R. Goodman, M.D. (Chair)
University of North Carolina
Paul C. Lin, M.D.
Seattle Reproductive Medicine
Hisao Osada, M.D., Ph.D.
Shinjuku ART Clinic

1:30 PM – 2:45 PM
Symposium
Crises Management: What We Have Learned from Catastrophic Events
Sangita K. Jindal, Ph.D. (Chair)
Montefiore Institute for Reproductive Medicine and Health
Roman Pyrzak, Ph.D.
Albert Einstein College of Medicine/Montefiore Medical Center
Kimball O. Pomeroy, Ph.D.
The World Egg Bank

1:30 PM – 2:45 PM
Symposium
Howard and Georgeanna Jones Symposium on Assisted Reproductive Technology: Epigenetic/Genomic Anomalies in Oocytes/Embryos: Current Insights and Clinical Implications
Endowed by a 2010 educational grant from EMD Serono, Inc.
Manuel Viotti, Ph.D. (Chair)
Zouves Foundation for Reproductive Medicine
Fuchou Tang, Ph.D.
Peking University
McCoy Rajiv, Ph.D.
Peking University

3:00 PM – 3:45 PM
Symposium
Menopause Keynote Lecture: Menopausal HRT and Reduction of CVD and All-Cause Mortality: It’s About Time and Timing
Howard N. Hodis, M.D.
Keck School of Medicine of University of Southern California
3:45 PM – 4:45 PM
Interactive Session
Contemporary Management of Turner Syndrome: Case Presentations
Staci E. Pollack, M.D., M.S. (Chair)
Albert Einstein College of Medicine
Katherine Hayes, M.D.
UNC School of Medicine
Noor Ebbiary, M.B.B.Ch., M.D.
UNC School of Medicine
Jamie Dokson, M.S., L.C.G.C.
Navigate Genetic Counseling, LLC

3:45 PM – 4:45 PM
Interactive Session
Say Her Name: Patient Perspectives and Advocacy for Black Women Facing Infertility
Camille Hammond, M.D. (Chair)
The Cade Foundation
Regina Townsend
Fertility for Colored Girls
Shantana Hazel
Fertility for Colored Girls
Stacey Edwards-Dunn, D.Min., M.P.H.
The Cade Foundation

3:45 PM – 4:45 PM
Interactive Session
Varicocelectomy in the Management of Male Factor Infertility – An Interactive Discussion
Joseph P. Alukal, M.D. (Chair)
Columbia University
Larry I. Lipshultz, M.D.
Baylor College of Medicine
Armand Zini, M.D., F.R.C.S.C.
University of Iowa
Karl R. Hansen, M.D., Ph.D.
University of Oklahoma Health Sciences Center

3:45 PM – 4:45 PM
Interactive Session
Core Business Principles, Administrative Functions of IVF Practice and Best Marketing Strategies
Munire Erman, M.D., M.Sc., M.B.A. (Chair)
Akdeniz University School of Medicine
Griffin Jones, B.A.
ASRM and ARM Member
Francisco Arredondo, M.D.
Poshib Fertility

3:45 PM – 4:45 PM
Interactive Session
Dietary Patterns and Fertility
Malgorzata E. Skaznik-Wikiel, M.D. (Chair)
University of Colorado - Anschutz Medical Campus
Sunni L. Mumford, Ph.D.
Epidemiology Branch, DiPHR, NICHD, NIH
Jorge E Chavarro, M.D., Sc.D.
Harvard School of Public Health

3:45 PM – 4:45 PM
Interactive Session
What Every ASRM Member Needs to Know About the New AUA/ASRM Male Infertility Guidelines
Stan Honig, M.D. (Chair)
Yale University
Peter N. Schlegel, M.D.
Weill Cornell Medicine, New York Presbyterian Hospital
Mark Sigman, M.D.
Brown University
Barbara Lynn Collura, M.A.
RESOLVE: The National Infertility Association

6:00 PM – 6:30 PM
NICHID Workshop Registration
NICHID Workshop registration required

6:30 PM
NICHID Dinner
NICHID Workshop registration required

7:30 PM – 9:30 PM
Welcome and Keynote Lecture
NICHID Workshop registration required
ASRM Today: Catch up on the latest each week by subscribing on your favorite podcast app.

F&S On Air: Hit the highlights from the table of contents each month and catch up on Journal Club Global debates!

SART Fertility Experts: Season 2 has dropped, share this patient-oriented podcast with your patients!

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Specialty Track Pages

These at-a-glance content track pages are built around attendee special interests, so that groupings of course offerings according to content can easily be identified. Most of the content of the Scientific Congress addresses the interests of our REI and ART-focused attendees. Therefore, REI and ART content courses are not shown as separate tracks. Access all sessions by track via our online schedule here: https://asrm.confex.com/asrm/2021/meetingapp.cgi/Index/CB_Track

Access to Care Track

Monday, October 18

1:30 PM - 2:45 PM Symposium CME
With (Reproductive) Justice for All: Addressing Systemic Inequities in Reproductive Healthcare
Rachael Bailey, J.D.
International Reproductive Law Group
Angela Bethea-Walsh, Ph.D.
Private Practice, Atlanta, GA
Danielle Kaplan, Ph.D.
NYU Langone

Tuesday, October 19

1:30 PM - 2:45 PM Symposium CME
Representation Matters: The Task to Increase Diversity in Subspecialty REI Training
Gloria Richard-Davis, M.D.
UAMS, Little Rock, AR
Sherita Hill Golden, M.D., M.H.S.,
John Hopkins Medicine
Mia Mallory, M.D., M.Ed.
University of Cincinnati College of Medicine/
Cincinnati Children’s Hospital Medical Center

4:30 PM - 5:30 PM Interactive Session CME
Where Are the Brown Eggs?: Increasing Access to and Utilization of Third Party Reproduction
Heather Gibson Huddleston, M.D.
University of California San Francisco, San Francisco, CA
Jerisa Berry, M.D.
Secure Your Fertility
Jerrine R. Morris, M.D., M.P.H.
University of California, San Francisco, Department of Obstetrics and Gynecology, San Francisco, CA

Wednesday, October 20

1:30 PM - 2:45 PM Symposium CME
Transgender Youth: Navigating Parents, Peers, and Society While Envisioning Future Family Planning
Molly B. Moravek, M.D., M.P.H.
University of Michigan
Marjorie E. Dixon, M.D.
Anova Fertility and Reproductive Health,
Toronto, ON, Canada
Jamie M. Joseph, Ph.D.,
Private Practice

3:45 PM - 4:45 PM Interactive Session CME
Say Her Name: Patient Perspectives and Advocacy for Black Women Facing Infertility
Regina Townsend
The Broken Brown Egg
Shantana Hazel
Sister Girl Foundation
Stacey Edwards-Dunn, D.Min., M.P.H.
Fertility for Colored Girls
Camille Hammond, M.D.
The Cade Foundation
### Monday, October 18

1:30 PM - 2:45 PM Symposia
**PGT Yesterday, Today, and Tomorrow**
James A Grifo, MD, PhD, New York University
Mike Large, Ph.D.
CooperSurgical
Mark Hughes, Ph.D.
COOPERGENOMICS

**SART-CORS Registry: The State of the ART**
Jennifer F Kawwass, M.D., Emory University School of Medicine, Division of Reproductive Endocrinology and Infertility
Stacey A Misser, Sc.D.
College of Human Medicine, Michigan State University
Amanda Nicole Kallen, M.D.
Yale School of Medicine

**Symposium on Long-Term Storage of Germplasms at Room Temperature - the End of the Ice Age.**
Allison Hubel, Ph.D.
University of Wisconsin
Pasqualino Loi, Ph.D.
University of Teramo, Italy
Pasquale Patrizio, M.D., M.B.E., H.C.L.D.
Yale Fertility Center
Pierre Comizzoli, D.V.M., Ph.D.
Smithsonian Institution

### Tuesday, October 19

1:30 PM - 2:45 PM Symposium
**Artificial Intelligence (AI) in the IVF Laboratory**
Alan B. Copperman, M.D.
Sema4
Reproductive Medicine Associates of New York
Danielle Soltesz, M.B.A., M.P.H.
RMA of New York

4:30 PM - 5:30 PM Interactive Session
**Let's Talk Legal**
Michael J Tucker, Ph.D.
Shady Grove Fertility
Susan Crockin, J.D.
Georgetown University

### Wednesday, October 20

1:30 PM - 2:45 PM Symposia
**Howard and Georgeanna Jones Symposium on Assisted Reproductive Technology: Epigenetic/Genomic Anomalies in Oocytes/Embryos: Current Insights and Clinical Implications**
Fuchou Tang, Ph.D.
Peking University, Beijing, CA, China
McCoy Rajiv, Ph.D.
Johns Hopkins University
Manuel Viotti, Ph.D.
Zouves Foundation for Reproductive Medicine

**Crises Management: What We Have Learned from Catastrophic Events**
Roman Pyrzak, Ph.D.
The Fertility Institute of New Orleans
Kimball O. Pomeroy, Ph.D.
The World Egg Bank
Sangita K. Jindal, Ph.D.
Albert Einstein College of Medicine / Montefiore Medical Center

**The Environment: It Affects More Than the Ice Caps!**
Patricia Hunt, Ph.D.
Washington State University
Dean E Morbeck, Ph.D., M.B.A.
Sunfert International Fertility Centre, Malaysia
Linda C Giudice, M.D., Ph.D.
Washington State University
Contraception Track

Monday, October 18

4:30 PM - 5:30 PM  Interactive Session  CME
The Vagina Dialogues: How the Vaginal Microbiome Is Emerging As a Key Factor in Reproductive Health
Michelle Shardell, Ph.D.
University of Maryland School of Medicine
Susan Tuddenham, M.D.
Johns Hopkins University School of Medicine
Anne E. Burke, M.D., M.P.H.
Johns Hopkins School of Medicine

Tuesday, October 19

3:00 PM - 3:45 PM  Keynote Lecture  CME
Contraception Keynote Lecture: New Frontier in Contraception Research
Regine Sitruk-Ware, M.D.
Population Council

Wednesday, October 20

3:45 PM - 4:45 PM  Interactive Session  CME
Complex Family Planning Fellows Showcase
Elizabeth Micks, M.D. M.P.H.
Oregon Health & Science University
**Ethics & Legal Track**

**Monday, October 18**

**1:30 PM - 2:45 PM Symposium**
The ABOG Foundation - Kenneth J. Ryan Ethics Symposium: Reimagining Reproductive Counseling and Treatment in an Era of Uncertainty: Pandemic Impacts on Fertility Care
- Enrique F. Schisterman, Ph.D.
  National Institute of Child Health and Human Development, Epidemiology Branch, DIPHR, NICHD, NIH
- Neil Silverman, M.D.
  Center for Fetal Medicine and Women’s Ultrasound
- Louise Perkins King, M.D., J.D.

**1:30 PM - 2:45 PM Symposium**
With (Reproductive) Justice for All: Addressing Systemic Inequities in Reproductive Healthcare
- Rachael Bailey, J.D.
  International Reproductive Law Group
- Angela Bethea-Walsh, Ph.D.
  Private Practice
- Danielle Kaplan, Ph.D.
  NYU Langone

**Tuesday, October 19**

**9:15 AM - 10:00 AM Plenary**
Plenary Lecture: Ethics/Artificial Gametes From Stem Cells and on Widespread IVF Utilization in the Fertile Population to Allow Genetic Testing
- Henry T. Greely, J.D.
  Stanford University

**4:30 PM - 5:30 PM Interactive Session**
Let’s Talk Legal
- Michael J Tucker, Ph.D.
  Shady Grove Fertility
- Susan Crockin, J.D.
  Georgetown University

**Wednesday, October 20**

**11:00 AM - 12:00 PM Clinical Session**
MHPG Clinical Session: Ethics Course: Reproductive Healthcare Ethic and Challenges in Modern Times
- Alice D. Domar, Ph.D.
  Boston IVF
- Elizabeth Anne Grill, Psy.D.
  Weill Cornell Medical College
- Kim Bergman, Ph.D.
  Growing Generations

**1:30 PM - 2:45 PM Symposium**
Surrogacy and the Modern Family: Medical, Ethical and Emotional Challenges of Complex Gestational Surrogacy Cases
- Mark Leondires, M.D.
  Reproductive Medicine Associates of Connecticut
- Lisa Schuman, M.S.W.
  Reproductive Medicine Associates of Connecticut
- Mark Schiff, M.A.
  Growing Generations

**1:30 PM - 2:45 PM Symposium**
Crises Management: What We Have Learned from Catastrophic Events
- Roman Pyrzak, Ph.D.
  The Fertility Institute of New Orleans
- Kimball O. Pomeroy, Ph.D.
  The World Egg Bank
- Sangita K. Jindal, Ph.D.
  Albert Einstein College of Medicine / Montefiore Medical Center
Fertility Preservation Track

Monday, October 18

1:30 PM - 2:45 PM Symposia
Symposium on Long-Term Storage of Germplasms at Room Temperature - the End of the Ice Age.
Allison Hubel, Ph.D.
University of Wisconsin
Pasqualino Loi, Ph.D.
University of Teramo, Italy
Pasquale Patrizio, M.D., MBE, HCLD
Yale Fertility Center
Pierre Comizzoli, D.V.M., Ph.D.
Smithsonian Institution

Allison Hubel, Ph.D.
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Smithsonian Institution

SART-CORS Registry: The State of the ART
Jennifer F. Kawwass, M.D.
Emory University School of Medicine, Division of Reproductive Endocrinology and Infertility

Stacey A. Missmer, Sc.D.
College of Human Medicine, Michigan State University
Amanda Nicole Kallen, M.D.
Yale School of Medicine

4:30 PM - 5:30 PM Interactive Session
Evidence Based Selection of Ovarian Stimulation Protocols for Fertility Preservation
Clarisa Gracia, M.D., M.S.C.E.
Hospital of the University of Pennsylvania
Kenny A. Rodriguez-Wallberg, M.D., Ph.D.
University of Karolinska, Sweden
Kutluk H. Oktay, M.D., Ph.D.
Yale University School of Medicine

Tuesday, October 19

4:30 PM - 5:30 PM Interactive Session
Oncofertility and Sperm Cryopreservation during the Global COVID-19 Pandemic
Joshua A. Halpern, M.D., M.S.
Northwestern University, Feinberg School of Medicine

Dolores J. Lamb, Ph.D.
Male Infertility
Robert E. Brannigan, M.D.
Northwestern University Feinberg School of Medicine

Wednesday, October 20

1:30 PM - 2:45 PM Symposia
Fertility Preservation for Women and Girls with Primary Ovarian Insufficiency: Current Strategies
Kutluk H. Oktay, M.D., Ph.D.
Yale University School of Medicine
David Cohen, M.D.
Infertility IHR
Mindy S. Christianson, M.D.
Johns Hopkins Fertility Center

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Transgender Youth: Navigating Parents, Peers, and Society While Envisioning Future Family Planning
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University of Michigan
Marjorie E. Dixon, M.D.
Anova Fertility and Reproductive Health, Toronto, ON, Canada
Jamie M. Joseph, Ph.D.
Private Practice

Crisis Management: What We Have Learned from Catastrophic Events
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Sangita K. Jindal, Ph.D.
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3:45 PM - 4:45 PM Interactive Session
What Every ASRM Member Needs to Know About the New AUA/ASRM Male Infertility Guidelines
Peter N. Schlegel, M.D.
Weill Cornell Medicine, New York Presbyterian Hospital
Mark Sigman, M.D.
Brown University
Barbara Lynn Collura, M.A.
RESOLVE: The National Infertility Association
Stan Honig, M.D.
Yale University
Genetic Counseling Track

Monday, October 18

4:30 PM - 5:30 PM Interactive Sessions
PGT-a for Pregnancy Loss Prevention: Who Is It Good for?
William G. Kearns, PhD
AdvaGenix, Johns Hopkins University School of Medicine
Eric J. Forman, M.D.
Medical and Laboratory Director
Alleigh L.H. Boyd, MS
Stanford University
Paul Robert Brezina, M.D.
Fertility Associates of Memphis

Open-Identity Gamete Donation: What Are the Children Saying?
Jennifer Gamper, B.S.N., M.S.W.
RMANJ
Greg Moga, B.A., J.D.
Seattle Sperm Bank
Wendy Kramer, B.A.
Donor Sibling Registry
Gina Davis, M.S., L.C.G.C.
Advocate Genetics
Kriston Ward, M.S.N.
Strong Fertility Center

Tuesday, October 19

1:30 PM - 2:45 PM Symposium
From the Lab to the Clinic: niPGT-A for Embryo Prioritization
Erin Barone, M.S., G.C.
New Hope Fertility Center
Nina Resetkova, M.D., M.B.A.
Boston IVF
Alyssa Snider, M.S., Ph.D., C.G.C.
Igenomix

4:30 PM - 5:30 PM Interactive Session
PGT-a: Is Transferring Segmental (full or mosaic, large or small) Aneuploidy Embryos Safe
Mousa Shamonki, M.D.
Fertility and Surgical Associates of California
Ann Carlson, M.S., C.G.C.
Weill Cornell Medical College of Cornell University
Kangpu Xu, Ph.D.
Weill Cornell Medical College of Cornell University
Valerie L Baker, M.D.
Johns Hopkins Fertility Center

Wednesday, October 20

1:30 PM - 2:45 PM Symposium
Howard and Georgeanna Jones Symposium on Assisted Reproductive Technology: Epigenetic/Genomic Anomalies in Oocytes/Embryos: Current Insights and Clinical Implications
Fuchou Tang, Ph.D.
Peking University, Beijing, CA, China
McCoy Rajiv, Ph.D.
Johns Hopkins University
Manuel Viotti, Ph.D.
Zouves Foundation for Reproductive Medicine

3:45 PM - 4:45 PM Interactive Session
Contemporary Management of Turner Syndrome: Case Presentations
Katherine Hayes, M.D.
University of Utah
Noor Ebbiary, M.B.B.Ch., M.D.
University of Sheffield
Jamie Dokson, M.S., L.C.G.C.
Navigate Genetic Counseling
Staci E. Pollack, M.D., M.S.
Albert Einstein College of Medicine
Genetics Track

Monday, October 18

8:30 AM - 9:15 AM Plenary
President's Guest Plenary Lecture: CRISPER and Gene Editing
Jennifer Doudna, Ph.D.
University of California, Berkeley

1:30 PM - 2:45 PM Symposium
PGT Yesterday, Today, and Tomorrow
James A. Grifo, M.D., Ph.D.
New York University
Mike Large, Ph.D.
CooperSurgical
Mark Hughes, Ph.D.
COOPERGENOMICS

4:30 PM - 5:30 PM Interactive Sessions
Open-Identity Gamete Donation: What Are the Children Saying?
Jennifer Gamper, B.S.N., M.S.W.
RMANJ
Greg Moga, B.A., J.D.
Seattle Sperm Bank
Wendy Kramer, B.A.
Donor Sibling Registry
Gina Davis, M.S., L.C.G.C.
Advocate Genetics
Kristen Ward, M.S.N.
Strong Fertility Center

Tuesday, October 19

8:00 AM - 8:30 AM Lecture
Pre-Plenary Lecture: Uncovering the Molecular Determinants of Successful Implantation in the Human Blastocyst
Heidi Cook-Andersen, M.D., Ph.D.
University of California, San Diego

9:15 AM - 10:00 AM Plenary
Plenary Lecture: Ethics/Artificial Gametes From Stem Cells and on Widespread IVF Utilization in the Fertile Population to Allow Genetic Testing
Henry T. Greely, J.D.
Stanford University

1:30 PM - 2:45 PM Symposium
KY Cha Symposium in Stem Cell Technology and Reproductive Medicine: Regenerative Medicine As the New Frontier in ART
Shoukhrat Mitalipov, Ph.D.
Oregon Health & Science University
Monica M. Laronda, Ph.D.
Stanley Manne Children’s Research Institute, Ann & Robert H. Lurie Children's Hospital of Chicago
T. Arthur Chang, Ph.D., H.C.L.D., E.L.D.
University of Texas Health Science Center

1:30 PM - 2:45 PM Symposium
From the Lab to the Clinic: nPGT-A for Embryo Prioritization
Erin Barone, M.S., G.C.
New Hope Fertility Center
Nina Reseltkova, M.D., M.B.A.
Boston IVF
Alyssa Snider, M.S., Ph.D., C.G.C.
Igenomix

3:00 PM - 3:45 PM Keynote Lecture
The Society for the Study of Reproduction Keynote Lecture: Genetic Basis of Meiotic Catastrophe: From Mice to Men
P. Jeremy Wang, M.D., Ph.D.
University of Pennsylvania
Genetics Track

Tuesday, October 19

4:30 PM - 5:30 PM  Interactive Session  
PGT-a: Is Transferring Segmental (full or mosaic, large or small) Aneuploidy Embryos Safe
Mousa Shamonki, M.D.
Fertility and Surgical Associates of California
Ann Carlson, M.S., C.G.C.
Weill Cornell Medical College of Cornell University
Kangpu Xu, Ph.D.
Weill Cornell Medical College of Cornell University
Valerie L. Baker, M.D.
Johns Hopkins Fertility Center

Wednesday, October 20

8:00 AM - 8:45 AM  Plenary  
Herbert H. Thomas Plenary Lecture: Applications of Nuclear Transplantation in Reproductive Medicine
Shoukhrat Mitalipov, Ph.D.
Oregon Health & Science University

1:30 PM - 2:45 PM  Symposium  
Howard and Georgeanna Jones Symposium on Assisted Reproductive Technology: Epigenetic/Genomic Anomalies in Oocytes/Embryos: Current Insights and Clinical Implications
Fuchou Tang, Ph.D.
Peking University, Beijing, CA, China
McCoy Rajiv, Ph.D.
Johns Hopkins University
Manuel Viotti, Ph.D.
Zouves Foundation for Reproductive Medicine
Male Reproduction Track

Monday, October 18

1:30 PM - 2:45 PM Symposium CME
Reimagining the Future of Male Reproductive Medicine in the Age of Telemedicine and Beyond
James M. Dupree IV, M.D., M.P.H.
University of Michigan
Tolu Bakare, M.D.
University of Texas Southwestern Medical Center
James Smith, M.D.
University of California, San Francisco
Marc Goldstein, M.D.
Center for Male Reproductive Medicine and Microsurgery, Weill Cornell Medicine, New York Presbyterian Hospital

4:30 PM - 5:30 PM Interactive Session CME
Integrating the Reproductive Urologist within the Modern ART Practice
Thomas L. Toth, M.D.
Boston IVF
Puneet Masson, MD
Penn Medicine
Cigdem Tanrikut, MD
Shady Grove Fertility

3:00 PM - 3:45 PM Lecture CME
American Urological Association (AUA) Bruce Stewart Memorial Lecture: Compelling Evidence that Collaboration with Qualified Male Reproductive Urologists Improves ART Outcomes
Marc Goldstein, M.D.
Center for Male Reproductive Medicine and Microsurgery, Weill Cornell Medicine, New York Presbyterian Hospital

Tuesday, October 19

3:00 PM - 3:45 PM Keynote Lectures CME
Contraception Keynote Lecture: New Frontiers in Contraception Research
Regine Sitruk-Ware, M.D.
Population Council

The Society for the Study of Reproduction Keynote Lecture: Genetic Basis of Meiotic Catastrophe: From Mice to Men
P. Jeremy Wang, M.D., Ph.D.
University of Pennsylvania

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Joshua A. Halpern, M.D., M.S.
Northwestern University, Feinberg School of Medicine
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Robert E. Brannigan, M.D.
Northwestern University Feinberg School of Medicine

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Varicocelectomy in the Management of Male Factor Infertility – an Interactive Discussion
Larry I. Lipshultz, M.D.
Baylor College of Medicine
Armand Zini, M.D., F.R.C.S.C.
McGill University, Montréal, QC, Canada
Karl R. Hansen, M.D., Ph.D.
University of Oklahoma College of Medicine
Joseph P. Alukal, M.D.
Columbia University Fertility Center

What Every ASRM Member Needs to Know CME
About the New AUA/ASRM Male Infertility Guidelines
Peter N. Schlegel, M.D.
Weill Cornell Medicine, New York Presbyterian Hospital
Mark Sigman, M.D.
Brown University
Barbara Lynn Collura, M.A.
RESOLVE: The National Infertility Association
Stan Honig, M.D.
Yale University
Menopause and Primary Ovarian Insufficiency (POI) Track

Monday, October 18

4:30 PM - 5:30 PM Interactive Sessions
The Vagina Dialogues: How the Vaginal Microbiome Is Emerging As a Key Factor in Reproductive Health
Michelle Shardell, Ph.D.
University of Maryland School of Medicine
Susan Tuddenham, M.D.
Johns Hopkins University School of Medicine
Anne E. Burke, M.D., M.P.H.
Johns Hopkins School of Medicine

Hormone Therapy for Primary Ovarian Insufficiency and Menopausal Symptoms: Case Presentations
Satu Kuokkanen, M.D., Ph.D.
NYU Langone
Lubna Pal, M.B.B.S.
Yale University
Jessica B. Spencer, M.D., M.Sc.
Emory University School of Medicine, Division of Reproductive Endocrinology and Infertility

Wednesday, October 20

1:30 PM - 2:45 PM Symposium
Fertility Preservation for Women and Girls with Primary Ovarian Insufficiency: Current Strategies
Kutlu H. Oktay, M.D., Ph.D.
Yale University School of Medicine
David Cohen, M.D.
Infertility IHR
Mindy S. Christianson, M.D.
Johns Hopkins Fertility Center

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University of Sheffield
Jamie Dokson, M.S., L.C.G.C.
Navigate Genetic Counseling
Staci E. Pollack, M.D., M.S.
Albert Einstein College of Medicine

3:00 PM - 3:45 PM Keynote Lecture
Menopause Keynote Lecture: Menopausal HRT and Reduction of CVD and All-Cause Mortality: It’s About Time and Timing
Howard N. Hodis, M.D.
Keck School of Medicine of USC

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Mental Health Track

Monday, October 18

11:00 AM - 12:00 PM Clinical Session
MHPG Clinical Session: Psychological and Medical Experiences of Compensated Gestational Carriers in the U.S.
Angela K. Lawson, Ph.D.
Northwestern University Feinberg School of Medicine, Department of Obstetrics and Gynecology, Division of Reproductive Endocrinology and Infertility
Guy E Ringler, M.D.
California Fertility Partners
Janelle Watson, L.M.F.T., P.M.H-C.
Growing Generations

1:30 PM - 2:45 PM Symposium
The ABOG Foundation - Kenneth J. Ryan Ethics Symposium: Reimagining Reproductive Counseling and Treatment in an Era of Uncertainty: Pandemic Impacts on Fertility Care
Enrique F Schisterman, Ph.D.
National Institute of Child Health and Human Development, Epidemiology Branch, DIPHR, NICHD, NIH
Neil Silverman, M.D.
Center for Fetal Medicine and Women’s Ultrasound
Louise Perkins King, M.D., J.D.
Affiliation not provided

1:30 PM - 2:45 PM Symposium
With (Reproductive) Justice for All: Addressing Systemic Inequities in Reproductive Healthcare
Rachael Bailey, J.D.
International Reproductive Law Group
Angela Bethea-Walsh, Ph.D.
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Open-Identity Gamete Donation: What Are the Children Saying?
Jennifer Gamper, B.S.N., M.S.W.
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Wendy Kramer, B.A.
Donor Sibling Registry
Gina Davis, M.S., L.C.G.C.
Advocate Genetics
Kriston Ward, M.S.N.
Strong Fertility Center

Tuesday, October 19

1:30 PM - 2:45 PM Symposium
The Ticking of the Clock: Managing the Age-Related DOR Patient
Sheri Hovdestad, M.A., L.P.C., N.C.C.
SBH Counseling Services LLC
Hayley Eichlin, D.N.P., A.P.R.N., W.H.N.P-BC.
RMANJ

4:30 PM - 5:30 PM Clinical Session
MHPG Clinical Session: Testing - A Therapeutic Assessment Model in the Psychological Screening of Gestational Carriers
Mary P. Riddle, Ph.D.
Penn State University
Miranda Montrone, M.A.
Health Psychologist/Counseling Place Australia, Glebe, NSW, Australia
Mental Health Track

Wednesday, October 20

11:00 AM - 12:00 PM  Clinical Session
MHPG Clinical Session: Ethics Course: Reproductive Healthcare Ethic and Challenges in Modern Times
Alice D. Domar, Ph.D.
Boston IVF
Elizabeth Anne Grill, Psy.D.
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Kim Bergman, Ph.D.
Growing Generations

1:30 PM - 2:45 PM  Symposia
Surrogacy and the Modern Family:
Medical, Ethical and Emotional Challenges of Complex Gestational Surrogacy Cases
Mark Leondires, M.D.
Reproductive Medicine Associates of Connecticut
Lisa Schuman, M.S.W.
Reproductive Medicine Associates of Connecticut
Mark Schiff, M.A.
Growing Generations

3:45 PM - 4:45 PM  Interactive Sessions
Say Her Name: Patient Perspectives and Advocacy for Black Women Facing Infertility
Regina Townsend
The Broken Brown Egg
Shantana Hazel
Sister Girl Foundation
Stacey Edwards-Dunn, D.Min., M.P.H.
Fertility for Colored Girls
Camille Hammond, M.D.
The Cade Foundation

Addressing Mental Health for Patients with Pregnancy Loss: Inside and Outside the Fertility Clinic.
Alice D. Domar, Ph.D.
Boston IVF
Lora K Shahine, M.D.
Pacific Northwest Fertility

Transgender Youth: Navigating Parents, Peers, and Society While Envisioning Future Family Planning
Molly B. Moravek, M.D., M.P.H.
University of Michigan
Marjorie E. Dixon, M.D.
Anova Fertility and Reproductive Health, Toronto, ON, Canada
Jamie M. Joseph, Ph.D.
Private Practice
Nursing Track

Monday, October 18

1:30 PM - 2:45 PM Symposia
The ABOG Foundation - Kenneth J. Ryan Ethics Symposium: Reimagining Reproductive Counseling and Treatment in an Era of Uncertainty: Pandemic Impacts on Fertility Care
Enrique F. Schisterman, Ph.D.
National Institute of Child Health and Human Development, Epidemiology Branch, DiPHR, NICHD, NIH
Neil Silverman, M.D.
Center for Fetal Medicine and Women’s Ultrasound
Louise Perkins King, M.D., J.D.
Affiliation not provided

Beyond Barker: Neonatal Programming & Lessons from the Lactocrine Hypothesis
Carol A. Bagnell, Ph.D.
Professor
Katie Hinde, Ph.D.
Associate Professor
Frank (Skip) F. Bartol, M.S., Ph.D.
Alumni Professor & Associate Dean for Research and Graduate Studies

Knowledge Is Power: Educating the Modern Day REI Nurse
Jeanette Tomasino, Ph.D.
Northwell Health Fertility, Zucker School of Medicine at Hofstra/Northwell
Fady I. Sharara, M.D.
Virginia Center for Reproductive Medicine
Allison B. Catherino, Ph.D.

4:30 PM - 5:30 PM Clinical Session
NPG Clinical Session –Preparation for the Nurse Certificate Course in REI and Beyond – Day 1
Shalini Gunawardena, R.N., M.B.A.
Kaiser Permanante Center for Reproductive Health
Kelly Lehl, B.S.N.
CCRM Management Company
Meghan K Pierce, M.S.N.
IVI RMA
Dayna Browning, B.S.N.
IVI RMA

4:30 PM - 5:30 PM Interactive Session
Open-Identity Gamete Donation: What Are the Children Saying?
Jennifer Gamper, B.S.N., M.S.W.
RMANJ
Greg Moga, B.A., J.D.
Seattle Sperm Bank
Wendy Kramer, B.A.
Donor Sibling Registry
Gina Davis, M.S., L.C.G.C.
Advocate Genetics
Kriston Ward, M.S.N.
Strong Fertility Center

Tuesday, October 19

11:00 AM - 12:00 PM Clinical Session
NPG Clinical Session –Preparation for the Nurse Certificate Course in REI and Beyond – Day 2
Erin Ann Yontz, B.A., M.S.N.
University of Cincinnati Center for Reproductive Health
Lauri D. Black, M.S., C.G.C.
Pacific Reproductive Genetic Counseling

1:30 PM - 2:45 PM Symposium
The Ticking of the Clock: Managing the Age-Related DOR Patient
Sheri Hovdestad, M.A., L.P.C., N.C.C.
SBH Counseling Services LLC
Hayley Eichlin, D.N.P., A.P.R.N., W.H.N.P-BC.
RMANJ

Wednesday, October 20

11:00 AM - 12:00 PM Clinical Session
NPG Clinical Session –Preparation for the Nurse Certificate Course in REI and Beyond – Day 3
Lisa A Rinehart, R.N., J.D.
Legal Care Consulting, Inc.
Shannon M Lighton, BSN, MSN
RMA NJ
Jamie Walsh, RN, BSN
CCRM
Reproductive Surgery Track

Monday, October 18

1:30 PM - 2:45 PM
Multidisciplinary and Collaborative Approach to Endometriosis in Fertility
Kathleen Hwang, M.D.
University Pittsburgh, Urology
Horace Roman, M.D., Ph.D.
Clinique Tivoli-Ducos, Bordeaux, France
Rebecca Flyckt, M.D.
University Hospitals Cleveland Medical Center/Case Western Reserve University

4:30 PM - 5:30 PM
Asherman’s Syndrome: Surgery vs. Gestational Carrier/Surrogacy
Zaraq Khan, M.D.
Mayo Clinic
Carlos Simón, M.D., Ph.D.
Igenomix Foundation, INCLIVA, Department of Obstetrics and Gynecology, Valencia University, Valencia, Spain; Department of Obstetrics and Gynecology, BIDMC, Harvard University
Samantha Pfeifer, M.D.
Weill Medical College of Cornell University

Tuesday, October 19

8:30 AM - 9:15 AM  Plenary
Camran Nezhat, M.D. Lectureship in Innovations in Medicine: In Vitro Gametogenesis

10:45 AM - 12:15 PM  Surgery Session
Repair of Cesarean Section Scar Defects: Hysteroscopic Vs. Laparoscopic Approach
Balasubramanian Bhagavath, M.B.B.S.
University of Rochester Medical Center
Charles E. Miller, M.D.
Advocate Lutheran General Hospital
Steven R. Lindheim, M.D., M.M.M.
Wright State University, Boonshoft School of Medicine

Wednesday, October 20

1:30 PM - 2:45 PM  Symposium
Adenomyosis and Infertility: Medical and Surgical Management Strategies
Paul C. Lin, M.D.
Seattle Reproductive Medicine
Hisao Osada, M.D., Ph.D.
Shinjuku ART Clinic
Linnea R. Goodman, M.D.
University of North Carolina

3:45 PM - 4:45 PM  Interactive Session
Varicocelectomy in the Management of Male Factor Infertility – an Interactive Discussion
Larry I. Lipshultz, M.D.
Baylor College of Medicine
Armand Zini, M.D., F.R.C.S.C.
McGill University, Montréal, QC, Canada
Karl R. Hansen, M.D., Ph.D.
University of Oklahoma College of Medicine
Joseph P. Alukal, M.D.
Columbia University Fertility Center

3:00 PM - 3:45 PM  Lecture
Dan Martin, M.D.,
University of Tennessee
Reproductive Managers Track

Monday, October 18

1:30 PM - 2:45 PM  Symposia
The Impact of Private Equity on the Fertility Industry
Derek Larkin, JD, MBA
In Vitro Sciences
Peter Klatsky, MD
Spring Fertility
Brad Senstra, M.H.A.
Seattle Reproductive Medicine

Reimagining the Future of Male Reproductive Medicine in the Age of Telemedicine and Beyond
James M. Dupree IV, M.D., M.P.H.
University of Michigan
Tolu Bakare, M.D.
University of Texas Southwestern Medical Center
James Smith, M.D.
University of California, San Francisco

Tuesday, October 19

1:30 PM - 2:45 PM  Symposium
Artificial Intelligence (AI) in the IVF Laboratory
Alan B. Copperman, M.D.
Sema4
Reproductive Medicine Associates of New York
Danielle Soltesz, M.B.A., M.P.H.
RMA of New York

4:30 PM - 5:30 PM Interactive Session
Let’s Talk Legal
Michael J. Tucker, Ph.D.
Shady Grove Fertility
Susan Crockin, J.D.
Georgetown University

Wednesday, October 20

3:45 PM - 4:45 PM  Interactive Session
Core Business Principles, Administrative Functions of IVF Practice and Best Marketing Strategies
Griffin Jones, B.A.
ASRM and ARM Member
Francisco Arredondo, M.D.
RMA of Texas
Munire Erman, M.D., M.Sc., M.B.A.
Island Health, Campbell River, BC, Canada
Environment and Reproduction Special Interest Group

RTM07
Air Pollution and Reproductive Health
Pauline Mendola, Ph.D.

Genetic Counseling Special Interest Group

RTM08
Polygenic Risk Scores and Embryo Selection: Should We?
Amber Gamma, M.S., C.G.C.
Northwell Health Division of Medical Genetics

Health Disparities Special Interest Group

RTM09
Identifying and Managing Implicit Bias As a Physician
Torie Plowden M.D., M.P.H.
Womack Army Medical Center

LGBTQ Special Interest Group

RTM10
Interviewing for Strengths: Identifying the Traits and Characteristics That Will Help a Gestational Carrier Candidate Go on to Have a Successful Journey
Mark Schiff, M.A.
Growing Generations

Mental Health Professional Group - Scientific Congress

RTM11
The 2 Americas: A Conversation about Structural Inequities Affecting Black Women Receiving ART and Pathways Toward Anti-Racist Mental Health Services
Angela Bethea-Walsh, Ph.D.
Private Practice

Preimplantation Genetic Testing Special Interest Group

RTM17
The Future of PGT
Dagan Wells, Ph.D.
JUNO GENETICS

Nurses’ Professional Group

RTM13
The Good, the Bad and the Ugly: Taking a Closer Look at Children’s Books That Aid Gamete and Embryo Recipient Parents’ Disclosure
Patricia Hershberger, Ph.D., A.P.R.N., F.N.P-BC., F.A.A.N.
University of Illinois at Chicago

RTM14
Importance of Communication and Documentation in a World of Telemedicine
Jennifer Wood, R.N., B.S.N.
Shady Grove Fertility

Nutrition Special Interest Group

RTM15
Fueling for Fertility
Ashley Eskew, M.D., M.S.C.I.
Atrium Health

Pediatric and Adolescent Gynecology Special Interest Group

RTM16
Hypothalamic Amenorrhea & PCOS in the Adolescent: Clinical Pearls for Diagnosis, Counseling and Management
Rashmi Kudesia, M.D.
CCRM Fertility Houston

Preimplantation Genetic Testing for Aneuploidy
Pak Chung, M.D.
The Ronald O. Perelman and Claudia Cohen Center for Reproductive Medicine, Weill Cornell Medicine

Complementary and Integrative Medicine Special Interest Group

RTM03
From Preconception to Post-Partum, How Acupuncture Supports the Fertility Lifecycle
Kelly Lee Whiteside, L.Ac., M.S.O.M., F.A.B.O.R.M.
Harmony Health, Inc.

Early Pregnancy Special Interest Group

RTM04
Treatment of Chronic Endometritis: Wading through the Different Antibiotic Regimens
Erin Masaba, M.D.
University of Rochester

Endometriosis Special Interest Group

RTM05
Improving the Endometriosis Classification: Benefits and Hurdles
John Petrozza, M.D.
Massachusetts General Hospital Fertility Center

RTM06
Organ-on-Chips for the Study of Endometriosis
Kevin Osteen, Ph.D.
Vanderbilt University
Roundtable Discussions

**RTM19**
Embryological Aspects of Collecting Culture Medium for Nipgt to Ensure the Sensitivity and Accuracy

Regenerative Medicine and Stem Cell Biology Special Interest Group

**RTM20**
Meiotic Errors, Aneuploidy, and Infertility
Philip Jordan, Ph.D.
Johns Hopkins University Bloomberg School of Public Health

Reproductive Immunology Special Interest Group

**RTM21**
Endometrial Evaluation for Reproductive Failures
Kenneth Beaman, Ph.D.
Clinical Immunology Lab, Department of Microbiology and Immunology, Chicago Medical School, Rosalind Franklin University of Medicine and Science

Society for Assisted Reproductive Technology

**RTM22**
What the IVF Doctor Needs to Know about the IVF Laboratory
Eric Forman, M.D.
Columbia University Fertility Center

**RTM23**
Evidence Based Embryo Transfer
Jennifer Kawwass, M.D.
Emory University School of Medicine, Division of Reproductive Endocrinology and Infertility

**RTM24**
Interpreting Non-Invasive Prenatal Testing Results (NIPT) Results in Women Who Conceive after IVF-PGT-a
Emre Seli, M.D.
Yale School of Medicine

**RTM25**
Freezer Full of Risk
Ellen Trachman, J.D.
Trachman Law Center
Society for Male Reproduction and Urology

**RTM26**
Testosterone Deficiency and Male Infertility
Ranjith Ramasamy, M.D.
University of Miami Miller School of Medicine

**RTM27**
Tricks of the Trade: 40 Year Experience in Microsurgery for Male Infertility
Marc Goldstein, M.D.
Center for Male Reproductive Medicine and Microsurgery, Weill Cornell Medicine, New York Presbyterian Hospital

Society of Reproductive Surgeons

**RTM28**
3D-4K Microscope in Male Fertility Microsurgery
Philip Li, M.D.
Weill Cornell Medicine, Cornell University, New York Presbyterian Hospital

**RTM29**
Adjuvants for Ovarian Stimulation
David Meldrum, M.D.

**RTM30**
What Tests Are Indicated after the First Euploid Miscarriage?
Paul Brezina, M.D.
Fertility Associates of Memphis

**RTM31**
Advocacy As an Rx for Physician Burnout – Small Things You Can Do That Will Make a Big Difference for You and Your Patients
Serena Chen, M.D.
Division of Reproductive Medicine, IRMS at St Barnabas

Society of Reproductive Endocrinology & Infertility

**RTM2**
Ready, Set, Go! How to Skyrocket Your ART Lab Professional Career
Liesl Nel-Themaat, Ph.D., H.C.L.D.
University of Colorado Anschutz Medical Campus

Society of Reproductive Surgeons

**RTM33**
Fertility Preservation Surgical Techniques: Ovarian Transposition, Ovarian Tissue Transplantation and Future Directions
Divya Shah, M.D., M.M.E.
University of Pennsylvania

**RTM34**
Innovations in Asherman’s Prevention
Samantha Pfeifer, M.D.
Weill Cornell Medicine

Turkish Special Interest Group

**RTM35**
The ART of Personalizing IVF Treatments
Samir Babayev, M.D.
Mayo Clinic
Roundtable Discussions

TUESDAY, OCTOBER 19, 2021

Association of Reproductive Managers

RTT01
Taking a Fresh Approach on Establishing KPIs-Tools & Resources for Managers
Lindsey McBain, B.A.
IVI RMA NJ

Chinese Special Interest Group

RTT02
Building Collaborative Relationships with Academic and Health Care Institutions in Mainland China
Jing Xu, Ph.D.
Oregon Health & Science University

Early Pregnancy Special Interest Group

RTT03
COVID19- Early Pregnancy Impact- a Review
Alexis Melnick, M.D.
The Ronald O. Perelman and Claudia Cohen Center for Reproductive Medicine, Weill Cornell Medicine

Education Committee

RTT04
Teaching Clinical Reasoning in REI – How to Make It Work in Both in Person and Virtual Worlds
Winifred Mak, M.D., Ph.D.
University of Texas Dell Medical School, Women’s Health

Endometriosis Special Interest Group

RTT05
Using Progesterone Receptor Status for Personalized Endometriosis Treatment
Valerie Flores, M.D.
Yale School of Medicine

RTT06
Disease Modeling the Endometriotic Phenotype Using Organoids
Juan Gnecco, Ph.D.

Environment and Reproduction Special Interest Group

RTT07
Environmental Racism and Reproductive Health
Tamarra James-Todd, Ph.D.

Genetic Counseling Special Interest Group

RTT08
Carrier Screening Panels-How to Tell the Difference and Assess What Is Most Important
Pamela Callum, M.S., C.G.C.
Tandem Genetics

Health Disparities Special Interest Group

RTT09
When America Gets the Cold, Minorities Get the Flu: How Disparities in COVID-19 Outcomes Impact Reproductive and Infertility Care
Tia Jackson-Bey, M.D. M.P.H.
Reproductive Medicine Associates of New York

Imaging in Reproductive Medicine Special Interest Group

RTT10
Uterine Cavity and Tubal Patency Assessment Tests Should be Pain Free
Ilan Tur-Kaspa, M.D.
Institute for Human Reproduction

Mental Health Professional Group - Scientific Congress

RTT11
Addressing Sexual Dysfunction in Individuals and Couples Diagnosed with Infertility
Erika Kelley, Ph.D.

RTT12
Breaking Bad News to Infertility Patients: Strategies for Patient Support
Alice Domar, Ph.D.
Boston IVF

Nurses’ Professional Group

RTT13
Effective Strategies for Counseling Egg Donors
Kirby Adlam, C.N.M.

Preimplantation Genetic Testing Special Interest Group

RTT14
A Simple but Effective Approach to Perform PGT-M and PGT-a
Gary Harton, Ph.D.
PERKIN ELMER

RTT15
How to Interpret Embryo Mosaicism and to Counsel PGT Patients for Transferring Mosaic Embryos
Andria Besser, MS, CGC
NYU Langone Fertility Center

RTT16
Pregnancy Outcome of Mosaic Embryo Transfer: Data from a Multicenter Study and from the Literature
Kwong Wai Choy, Ph.D.

Regenerative Medicine and Stem Cell Biology Special Interest Group

RTT17
Impacts of Sars-Cov-2 in Male Fertility
Charles Easley, Ph.D., M.S.
University of Georgia

Society for Assisted Reproductive Technology

RTT18
Sperm DNA Fragmentation: Clinical Applications for the REI
Carter Owen, M.D.
Roundtable Discussions

RTT19
Answering Questions about Mosaic Embryos: Legal Perspective
Lisa Rinehart, R.N., J.D.
Legal Care Consulting, Inc.

RTT20
How Practice Managers Can Best Utilize SART
Sara Mooney, B.A.
ARM

Society for Male Reproduction and Urology

RTT21
What's New in the Genetic Evaluation for Couples with Male Factor Infertility
Dolores Lamb, Ph.D.
Weill Cornell Medical College

RTT22
Home Sperm Testing: Before, during, and after the Pandemic
Stan Honig, M.D.
Yale University

RTT23
Office-Based Sperm Retrieval Techniques for Obstructive Azoospermia
R. Coward, M.D.
University of North Carolina

Society of Reproductive Surgeons

RTT24
Artificial Intelligence in Male Reproductive Urology
Craig Niederberger, M.D.

Society for Reproductive Endocrinology & Infertility

RTT25
Polygenic Risk Scores and Embryo Selection: Can We, Should We?
Jeanne O'Brien, M.D., M.Sc.
Shady Grove Fertility Center

RTT26
Fertility Preservation in the Adolescent Cancer Patient
Raymond Ke, M.D.

Society of Reproductive Biologists and Technologists

RTT27
Emerging Bioengineering Technologies in the ART Labs
T. Arthur Chang, PhD, HCLD, ELD
University of Texas Health Science Center

RTT28
“Be a Scientist, Not a Robot”. Is That a Lost ART?”
Mitchel Schiewe, M.S., Ph.D.
Ovation Fertility

RTT29
The Ideal Cryopreservation Storage System - Characteristics and Equipment
Kimball Pomeroy, Ph.D.
The World Egg Bank

Society of Reproductive Surgeons

RTT30
Controversies in Managing the Septate Uterus and Why It Is so Hard to Get a Clear Answer
Preston Parry, MD
Parryscope Fertility

Turkish Special Interest Group

RTT31
Ovarian Tissue Freezing for Non-Medical (Elective) Indications: Is It Ready for Prime Time?
Kutluk Oktay, M.D., Ph.D.
Yale University School of Medicine

ALMER

RTT32
TBD

Association of Reproductive Managers

RTW01
Hand Holding at Six Feet Apart - How to Stay Patient Focused When We Are Shifting to More Screen Time Than Face Time
April Yates
Mid-Missouri Reproductive Medicine and Surgery

Early Pregnancy Special Interest Group

RTW02
Beyond the Initial Workup of Rsab: What’s Next When They Keep Miscarrying
Joshua Stewart, M.D.
The Ronald O. Perelman and Claudia Cohen Center for Reproductive Medicine, Weill Cornell Medicine

Genetic Counseling Special Interest Group

RTW03
To Nips or Not to Nips: Points to Consider for Fertility Patients and Providers
Vanessa Nitibhon, M.S., C.G.C.
LabCorp

Imaging in Reproductive Medicine Special Interest Group

RTW04
To Ultrasound or Not to Ultrasound during ET?
Alberto Revelli, M.D.
The University of Toronto

LGBTQ Special Interest Group

RTW05
Unique Considerations in Family Building for Gay Men
Samuel Pang, M.D.
Boston IVF
<table>
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<tr>
<th>Roundtable Discussions</th>
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<tr>
<td><strong>Mental Health Professional Group - Scientific Congress</strong></td>
<td><strong>Society for Reproductive Endocrinology &amp; Infertility</strong></td>
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<tr>
<td>RTW06 Lessons from an Adoption Plan: Taking a Child Centered Approach to Raising Donor Conceived Children Dori Kavanagh, L.C.S.W. MHPG</td>
<td>RTW13 Premature Progesterone Rise and IVF Outcomes Micah Hill, DO Walter Reed National Military Medical Center</td>
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<tr>
<td><strong>Nurses' Professional Group</strong></td>
<td><strong>RTW18 The ABCs of E&amp;m and CPT: Coding Updates</strong> Silvina Bocca, M.D., Ph.D. H.C.L.D. Jones Institute</td>
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<tr>
<td><strong>Preimplantation Genetic Testing Special Interest Group</strong></td>
<td><strong>RTW20 Transvaginal Ultrasound Guided Embryo Transfer</strong> Marwan Shaykh, M.D.</td>
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<td>RTW09 How Multiple Freeze Thaw Cycles Will Impact Pregnancy Outcomes Vinay Gunnala, M.D. Southwest Fertility Center</td>
<td><strong>RTW21 Looking Past the Hype: Realistic Expectations for AI-Based Embryo Selection</strong> Dean Morbeck, Ph.D., M.B.A. Fertility Associates</td>
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<tr>
<td>RTW10 Tricks, Tips and All Issues Related Embryo Biopsy for PGT Wei-Hua Wang, Ph.D.</td>
<td><strong>RTW22 Lab Disaster Management: Prepare Today be Ready Tomorrow</strong> Sangita Jindal, Ph.D. Albert Einstein College of Medicine/Montefiore Medical Center</td>
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<td>RTW11 Stem Cell Based Treatment of Female Infertility Ayman Al-Hendy, M.D., Ph.D. Department of Obstetrics and Gynecology, University of Chicago</td>
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<tr>
<td>RTW12 Evidence-Based Endometrial Preparation for Frozen Embryo Transfer (FET) Kate Devine, MD Shady Grove Fertility Center</td>
<td><strong>RTW14 Patient Consultation after Failure of IVF Treatment</strong> Kevin Doody, M.D. CARE Fertility</td>
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<td><strong>Society for Reproductive Surgeons</strong></td>
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<tr>
<td>RTW16 Health Insurance Reform and Infertility Care: From Advocacy to Action James Dupree, M.D., M.P.H. University of Michigan</td>
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<td><strong>Society for Reproductive Endocrinology &amp; Infertility</strong></td>
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<td>RTW17</td>
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The Final Program for the ASRM 2021 Scientific Congress & Expo in Baltimore will be posted online and available for download prior to, during, and after the Scientific Congress & Expo. The downloadable online PDF program will include complete, detailed program information, including the Daily Schedule and CME/CE materials (needs assessments/descriptions, learning objectives) for all CME activities (Postgraduate courses, plenary lectures, symposia, interactive sessions).

***

THERE WILL NOT BE A PRINTED FINAL PROGRAM BOOK

At the Congress, you will receive a printed copy of:

• Pocket calendar with room numbers
• Pocket listing of oral abstracts with room numbers
• Pocket listing of poster abstracts
• Listing of exhibits

ASRM’s free mobile app will list all of the activities, including oral and poster abstracts, with their room numbers for both the Postgraduate program and the Scientific Congress. The complete abstracts will be available on the:

• Mobile app
• Fertility and Sterility website
• Fertility and Sterility mobile app
• ASRMCongress.org website

For your convenience, there will be free wireless mobile hotspots in the Convention Center.
PASSPORT GAME

PLAY ON THE CONGRESS APP!

Must attend in-person Congress to participate.

- Play the Game
- Download the ASRM2021 Mobile App Passport Game. Play is free.
- Create a user profile
- Collect codes around the Baltimore Convention Center.
- Drawings Wednesday, October 19 @ noon
- Win Big!

Prizes include:
- One Apple Watch
- Two Fitbits
- Three $100 Amazon Gift Cards

Limit one prize per person.
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October 22-26, 2022

New Orleans, Louisiana  
October 14-18, 2023

Denver, Colorado  
October 19-23, 2024
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