This course is designed to provide the latest information on the mechanism, diagnosis and treatment of a broad range of reproductive endocrine disorders. In addition to didactic presentations, diagnostic dilemmas reflecting the breadth of reproductive endocrinology will be presented for problem solving by the faculty and participants. Interactive problem-solving exercises at the conclusion of each day will cover a broad range of endocrine disorders and infertility. These sessions are designed to filter the evidence appropriate to each patient through an interpreted and individualized approach. In addition to diagnosis and management, emphasis will be placed on the scope and limitations of different diagnostic interventions and the use of evidence-based medicine in deciphering infertility problems.

This course is designed as an in-depth review and update for reproductive endocrinologists who wish to sharpen and broaden their skills or for generalists who wish to increase their knowledge of reproductive endocrinology and infertility. Interactive and problem-solving sessions will be of particular value to participants who are preparing for written or oral examinations leading to board certification in reproductive medicine. Learners from other disciplines (e.g., medical endocrinology; pediatric endocrinology) will gain insights into treatment and practice patterns in reproductive endocrinology and genetics.

Learning Objectives
Upon completion of this activity, participants should be better able to:

- Describe the appropriate diagnostic steps and management for a wide range of reproductive disorders.
- Specify the scope, limitations, and error rates for different diagnostic interventions.
- Apply the use of evidence-based medicine in decision making in infertility and other reproductive disorders.
- Gain an appreciation of the appropriate summary statistics for time to pregnancy and other types of reproductive outcomes.

Target Audience
This course is designed for physicians, embryologists, geneticists, researchers, and other health professionals with interests in reproductive endocrinology, genetics, and ART. We particularly encourage clinical fellows to attend.
ACTIVITY DIRECTOR

Richard T. Scott, MD, HCLD/ALD
Professor and Director, Division of Reproductive Endocrinology & Infertility
Department of Obstetrics, Gynecology & Reproductive Sciences
Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ
Professor and Fellowship Director, Division of Reproductive Endocrinology & Infertility
Department of Obstetrics & Gynecology
Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA
Founding Partner, Reproductive Medicine Associates of New Jersey
Chief Executive Officer, IVI-RMA Global

Accreditation
In support of improving patient care, Rutgers Biomedical and Health Sciences is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Physicians
Rutgers Biomedical and Health Sciences designates this live activity for a maximum of 32.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Advanced Practice Nurses, Nurses, Physician Assistants
Advanced practice nurses, nurses and physician assistants may participate in this educational activity and earn a letter of attendance as AANP, ANCC and AAPA accept AMA PRA Category 1 Credits™ through their reciprocity agreements.

Method of Participation
In order to meet the learning objectives and receive continuing education credit, participants are required to check in at the registration desk each day of the activity, attend the program, and complete the online evaluation form at the conclusion of the activity. A letter certifying attendance and credit verification will be emailed to participants upon completion of the online evaluation survey.

Hotel and Travel Information
Just four miles from Ronald Reagan Washington National Airport and within three blocks of the DC Metro system, the Key Bridge Marriott is the perfect choice for DC vacations or business trips. Guest rooms with panoramic views of the nation’s capital and hallmark Marriott service make this Washington, DC hotel a favorite. The Key Bridge Marriott is conveniently located minutes from the Rosslyn Metro station, allowing guests easy access to some of the city’s most famous landmarks including the Iwo Jima Memorial, Arlington National Cemetery, the Pentagon, the Kennedy Center and Georgetown.

For reservations visit: https://goo.gl/1HPoZi or call 1-877-212-5752 and identify yourself with the Reproductive Endocrinology room block. The single/double occupancy rate is $201 per night, plus applicable taxes. Sleeping rooms are available until the block is sold or until February 6, 2019. Make your reservations early.

Location
KEY BRIDGE MARRIOTT
1410 Lee Highway, Arlington, VA 22209
Telephone: 703-524-6400
Reservations: 877-212-5752
For room reservation and hotel information visit: https://goo.gl/1HPoZi
Wednesday, February 27, 2019

5:00 - 6:00 pm  Program Registration and Check-In Available

Thursday, February 28, 2019

7:00 am  Registration / Continental Breakfast
7:30 am  Welcome / Course Overview ................................. Dr. Scott

Pediatric and Medical Endocrinology
7:45 am  Accelerated Sexual Development .............................. Dr. Houk
8:30 am  Pituitary Disorders ........................................ Dr. Sharma
9:15 am  Delayed Sexual Development .............................. Dr. Houk
10:00 am  Disorders of Adrenal Function ............................. Dr. Sharma
10:45 am  Break - Clinical Case Unknowns / Posterboards

Reproductive Surgery
11:00 am  Reproductive Surgery ...................................... Dr. Goldberg
11:45 am  Endometriosis – Mechanism of Disease and Mechanism Associated Infertility ..................................... Dr. Hill
12:15 pm  Management of Surgical Complications in RE .............. Dr. Goldberg
1:00 pm  Lunch - Clinical Case Unknowns / Slides

Endocrinopathies
2:15 pm  Endocrinology of Pregnancy ................................Dr. Cooper
3:00 pm  Thyroid Function Tests and Dysfunction .................. Dr. Burman
3:45 pm  Hyperprolactinemia ........................................ Dr. Lubitz
4:30 pm  Vitamin D, Obesity, Celiac Diagnosis, and Reproduction ...... Dr. Kim
5:15 - 8:00 pm  Boxed Dinner - Clinical Problem Solving ............ Dr. Scott

Friday, March 1, 2019

7:00 am  Registration / Continental Breakfast
7:45 am  Brief Overview of the Day and Administrative Issues

Hormone and Hormone Action
8:00 am  Mechanism of Hormone Action for Peptides .................. Dr. Mayo
8:45 am  Biology of Meiotic and Mitotic Errors in Reproduction .... Dr. Scott
9:30 am  Mechanism of Hormone Action for Steroids .................. Dr. Mayo
10:15 am  Break - Clinical Case Unknowns / Posterboards

Gamete Biology and Embryo Development
10:45 am  Folliculogenesis ................................................ Dr. Chaffin
11:30 am  Spermatogenesis and Fertilization .......................... Dr. Franasiak
12:15 pm  Physiology of Preimplantation Embryonic Development ... Dr. Swain
12:45 pm  Lunch - Clinical Case Unknowns / Slides

Implantation and Infertility and Pregnancy
2:15 pm  Stem Cells for Gamete Production .......................... Dr. Seli
3:00 pm  The Physiology and Dynamics of the Basic ART Laboratory ... Dr. Swain
3:45 pm  Vitrification ................................................ Dr. Conaghan
4:30 pm  Endometrial Receptivity and Implantation .................. Dr. Young
5:15 - 8:00 pm  Boxed Dinner - Clinical Problem Solving ............ Dr. Fritz
Saturday, March 2, 2019

7:00 am   Registration / Continental Breakfast
7:45 am   Brief Overview of the Day and Administrative Issues

**Techniques of ART**

8:00 am   Female Infertility .................................................. Dr. Fritz
8:45 am   Male Infertility ...................................................... Dr. Hotaling
9:30 am   Hirsutism and PCOS ............................................... Dr. Dumesic
10:15 am  Break - Clinical Case Unknowns / Posterboards

**Statistics**

10:45 am  Experimental Design Considerations for Investigations Related to Infertility ........................................ Dr. Molinaro
11:30 am  Genetic Assays: PCR, CGH, Arrays, and Next Gen. Understanding the Tests and the Information They Provide .............. Dr. Wells
12:15 pm  Epidemiology and Biostats of Infertility ...................... Dr. Molinaro
12:45 pm  Lunch - Clinical Case Unknowns / Slides

**Genetics and Reproductive Anomalies**

2:15 pm   Gene Editing ......................................................... Dr. Wells
3:00 pm   Sexual Differentiation and Development ...................... Dr. Scott
3:30 pm   Ambiguous Genitalia and CAH .................................. Dr. Scott
4:00 pm   Anomalies of the Upper and Lower Genital Tract ........ Dr. Goodman
5:00 -8:00 pm   Boxed Dinner - Clinical Problem Solving .................. Dr. Scott

Sunday, March 3, 2019

7:00 am   Registration / Continental Breakfast
7:45 am   Brief Overview of the Day and Administrative Issues

**The Climacteric**

8:00 am   The Physiology of the Climacteric ............................... Dr. Berga
8:45 am   Evaluation and Management of Osteopenia and Osteoporosis ........................................ Dr. Lewiecki
9:30 am   Risks and Benefits of Hormone Replacement .................. TBD
10:15 am  Break – Clinical Case Unknowns / Posterboards

**Contraception and Recurrent Loss**

10:45 am  An Evidence Based Approach to the Evaluation and Treatment of Recurrent Pregnancy Loss ....................... Dr. Lathi
11:15 am  Steroid Contraception – Pharmacokinetics, Pharmacodynamics and Clinical Application ..................... Dr. Allen
12:00 pm  Closing Comments and Adjournment
Rebecca H. Allen, MD, MPH
Associate Professor of Obstetrics and Gynecology, and Medical Science, Warren Alpert Medical School of Brown University, Providence, RI

Sarah L. Berga, MD
Professor and Director, Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, University of Utah School of Medicine, Salt Lake City, UT

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Professor of Medicine, Georgetown University School of Medicine; Director, Endocrine Section, Medstar Washington Hospital Center; Director, Endocrinology Fellowship Program, Georgetown University Hospital/MedStar Washington Hospital Center, Washington DC

Charles L. Chaffin, PhD
Associate Professor of Obstetrics, Gynecology and Reproductive Sciences, and Physiology, University of Maryland School of Medicine, Baltimore, MD

Joseph Conaghan, PhD
Laboratory Director, Pacific Fertility Center, San Francisco, CA

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Ruth Lathi, MD
Associate Professor of Obstetrics and Gynecology (Reproductive Endocrinology and Infertility), Director, Clinical Operations, Stanford Fertility and Reproductive Health, Stanford University Medical Center, Sunnyvale, CA

E. Michael Lewiecki, MD, FACP, FACE
Director, New Mexico Clinical Research & Osteoporosis Center, Director, Bone Health TeleECHO, University of New Mexico Health Sciences Center, Albuquerque, NM

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Kelly E. Mayo, PhD
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Dagen Wells, PhD
Associate Professor, Nuffield Department of Women's & Reproductive Health, Medical Sciences Division, University of Oxford; Director, Molecular Genetic Research, IVI RMA Global, Oxford, UK

Steven L. Young, MD, PhD
Professor of Obstetrics and Gynecology, Division of Reproductive Endocrinology and Infertility, University of North Carolina School of Medicine, Chapel Hill, NC

All individuals who affect the content of continuing education activities are required to disclose to the audience any real or apparent conflict of interest related to the activity. The activity faculty are further required to disclose discussion of off-label/ investigational uses in their presentations. These disclosures will be made to the audience at the time of the activity.

Rutgers reserves the right to modify program content, faculty and program activities. It also reserves the right to cancel the activity if necessary. If the activity is cancelled, liability is limited to the registration fee.

Registration Fees
$650    Full Registration
$450    Fellows-in-Training, Residents, Trainees, Students *

* Registration must be accompanied by program director’s letter confirming fellow/resident/trainee/student status. Please upload your letter when registering or fax to 973-972-3371.

Registration fee includes all plenary sessions, four continental breakfasts, three lunches, three boxed dinners, refreshments, continuing education credits, and course material. Registration can only be accepted through our secure on-line website.

Note: Please register early. Space for this program is limited. Online registration will close on February 20, 2019 or earlier if seating capacity is reached. On-site registration will be accommodated on a space available basis. Please be sure to make hotel reservations soon after you register.

To register: https://rutgers.cloud-cme.com/2019Frontiers

Please note that this is a new registration system and you must create a new account in order to register.

Confirmation
Once registered, you will receive a confirmation message and additional information to assist you with your plans to participate in the activity.

Cancellation/Refund
A full refund, less a $50 cancellation fee, will be granted if notice is received no later than February 20, 2019. Refunds will not be issued for any cancellation received after February 20, 2019 and cannot be given for “no shows.” To cancel, please contact CCOE by telephone at 973-972-4267 or by email at ccoe@ca.rutgers.edu

For Additional Information
For additional information, questions, concerns, or if you require special arrangements to attend this activity, please contact CCOE by telephone at 973-972-4267 or by email at ccoe@ca.rutgers.edu.

Activity Code: 19MR01
Frontiers in Reproductive Endocrinology: A COMPREHENSIVE REVIEW AND UPDATE
CME Certified Activity
Thursday - Sunday, February 28 - March 3, 2019
Key Bridge Marriott, Arlington, VA

Provided by: Rutgers Robert Wood Johnson Medical School,
Department of Obstetrics, Gynecology & Reproductive Sciences

This activity is supported in part by an educational grant from EMD Serono, Inc.

To register visit: https://rutgers.cloud-cme.com/2019Frontiers