HUMAN TERATOGENS COURSE

Environmental Factors That Cause Birth Defects

DIRECTED BY SARAH OBIČAN, MD

USF Center for Advanced Medical Learning and Simulation (CAMLs)

Jointly Provided by:

USF HEALTH
THE TERATOLOGY SOCIETY
OTIS Organization of Teratology Information Specialists
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Register online at [www.cme.hsc.usf.edu](http://www.cme.hsc.usf.edu)
As the only program of its kind nationally, the Human Teratogens Course will provide balanced and comprehensive information on the current knowledge and controversies in the field of teratology and counseling for pregnancy exposures. The faculty, many of whom are teratology and toxicology experts, will present lectures that will cover basic principles of teratology, embryology, and epidemiology as well as detailed information regarding maternal conditions and environmental exposures which may pose teratogenic effect in pregnancy and lactation. The course will also provide up-to-date information on common exposures and hot topics such as Zika and Opioids, which providers are likely to encounter in their practice.

Targeted Audience

- Obstetricians
- Maternal Fetal Medicine Specialists
- Genetic Counselors
- Pharmacists
- Allied Health Professionals

Competencies

- Patient care and procedural skills
- Medical knowledge
- Interpersonal and communication skills
- Patient-centered care
- Employ evidence based practice and professionalism

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Objectives

As a result of participating in this activity, the learner will be able to:

• Identify exposures which confer teratogenic risk to embryo, fetus, or infant.
• Discuss the magnitude of risk to embryo or fetus associated with maternal conditions during pregnancy or preconception.
• Discuss the magnitude of risk to pregnancy associated with maternal medication exposures during pregnancy or preconception.
• Discuss the magnitude of risk to embryo or fetus associated with maternal illicit drug use during pregnancy or preconception.
• Determine magnitude of risk associated with paternal exposures.
• Assess risks to infants associated with exposures during lactation.

Genetic Counselor CEUs: This event has been submitted to the National Society of Genetic Counselors (NSGC) for approval of Category 1 CEUs. The American Board of Genetic Counseling (ABGC) accepts CEUs approved by NSGC for purposes of recertification. Approval for the requested CEUs and Contact Hours is currently pending.

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through a joint providership of USF Health and the Organization of Teratology Information Specialists and the Teratology Society. USF Health is accredited by the ACCME to provide continuing medical education for physicians

USF Health designates this live activity for a maximum of 16 AMA PRA Category 1 Credit™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Register online at www.cme.hsc.usf.edu
## Course Agenda

**Activity Director:** Sarah G. Običan, MD

### Sunday, February 24th, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Duration (min)</th>
<th>Activity</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am - 8:00am</td>
<td>60</td>
<td>Registration Coffee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:00am - 8:15am</td>
<td>15</td>
<td></td>
<td>Welcome/Housekeeping</td>
<td>Sarah Običan, MD</td>
</tr>
<tr>
<td>8:15am - 9:00am</td>
<td>45</td>
<td></td>
<td>Introduction and Principles of Teratology</td>
<td>Lewis B. Holmes, MD</td>
</tr>
<tr>
<td>9:00am - 9:45am</td>
<td>45</td>
<td></td>
<td>Principles of Embryology</td>
<td>Anthony Scialli, MD</td>
</tr>
<tr>
<td>9:45am - 10:15am</td>
<td>30</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15am - 11:00am</td>
<td>45</td>
<td></td>
<td>Introduction to Screening and Intervention in Pregnancy</td>
<td>Sarah Običan, MD</td>
</tr>
<tr>
<td>11:00am - 12:00pm</td>
<td>60</td>
<td></td>
<td>Introduction to Epidemiology and Statistics</td>
<td>Russel Kirby, MD</td>
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<tr>
<td>12:00pm - 1:00pm</td>
<td>60</td>
<td>LUNCH</td>
<td></td>
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<tr>
<td>1:00pm - 1:45pm</td>
<td>45</td>
<td></td>
<td>Infections in pregnancy</td>
<td>Sonja Rasmussen, MD, MS</td>
</tr>
<tr>
<td>1:45pm - 2:30pm</td>
<td>45</td>
<td></td>
<td>Zika</td>
<td>Sonja Rasmussen, MD, MS</td>
</tr>
<tr>
<td>2:30pm - 3:00pm</td>
<td>30</td>
<td>Break</td>
<td></td>
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<tr>
<td>3:00pm - 3:45pm</td>
<td>45</td>
<td></td>
<td>Opioids</td>
<td>Sarah Običan, MD</td>
</tr>
<tr>
<td>3:45pm - 4:45pm</td>
<td>60</td>
<td></td>
<td>Marijuana vs. Tobacco</td>
<td>Christina Chambers, PhD</td>
</tr>
</tbody>
</table>

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# Course Agenda

**Activity Director:** Sarah G. Običan, MD

**Monday, February 25th, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Duration (min)</th>
<th>Activity</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:45am - 8:15am</td>
<td>30</td>
<td>Coffee</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>45</td>
<td>Autoimmune Conditions</td>
<td>Sarah Običan, MD</td>
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<tr>
<td>9:00am - 9:45am</td>
<td>45</td>
<td>Biologics</td>
<td></td>
<td>Christina Chambers, PhD</td>
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<tr>
<td>9:45am - 10:15am</td>
<td>30</td>
<td>Break</td>
<td></td>
<td></td>
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<tr>
<td>10:15am - 11:00am</td>
<td>45</td>
<td>Psychiatric Conditions and Psychiatric Medications</td>
<td>Katherine Wisner, MD</td>
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<tr>
<td>11:00am - 12:00pm</td>
<td>60</td>
<td>Epilepsy and Antiepileptic Medication</td>
<td>Katherine Wisner, MD</td>
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<tr>
<td>11:45am - 1:00pm</td>
<td>60</td>
<td>LUNCH</td>
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<tr>
<td>1:00pm - 1:45pm</td>
<td>45</td>
<td>Diabetes and Obesity</td>
<td>Judette Louis, MD</td>
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<tr>
<td>1:45pm - 2:30pm</td>
<td>45</td>
<td>Workplace Exposures</td>
<td>Anthony Scialli, MD</td>
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<tr>
<td>2:30pm - 3:00pm</td>
<td>30</td>
<td>Break</td>
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<tr>
<td>3:00pm - 3:45pm</td>
<td>45</td>
<td>FDA Update</td>
<td>Leyla Sahin, MD, FACOG, MBA</td>
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<tr>
<td>3:45pm - 4:45pm</td>
<td>60</td>
<td>Herbals</td>
<td>Alfred Romeo, RN, PhD</td>
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<td>Coffee</td>
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<tr>
<td>8:15am - 9:00am</td>
<td>45</td>
<td>Lactation and Medication</td>
<td>Adetola Louis-Jacques, MD</td>
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<tr>
<td>9:00am - 9:45am</td>
<td>45</td>
<td>Paternal Exposures</td>
<td>Anthony Scialli, MD</td>
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<td>Break</td>
<td></td>
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<tr>
<td>10:15am - 11:00am</td>
<td>45</td>
<td>Risk Assessment and Communication</td>
<td>Nevena Krstić, MS, CGC</td>
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<tr>
<td>11:00am - 11:45am</td>
<td>45</td>
<td>Obtaining Sources of Information</td>
<td>Anthony Scialli, MD</td>
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<tr>
<td>11:45am - 12:00pm</td>
<td>15</td>
<td>Closing Remarks</td>
<td></td>
<td>Sarah Običan, MD</td>
</tr>
</tbody>
</table>

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Speaker Information

- **Christina Chambers, PhD**
  Dr. Chambers is a perinatal epidemiologist and Professor of pediatrics at University of California, San Diego and Director of Clinical Research for the Department of Pediatrics at UCSD and Rady Children’s Hospital. Her research focuses on birth defects, child health outcomes and environmental exposures in pregnancy. She is internationally known in the field of teratology.

- **Lewis B. Holmes, MD**
  Dr. Holmes is a Professor at Harvard Medical School and the original director of the Human Teratogens course previously held at Harvard. He has spent over four decades researching causes of malformations in infants and determining the effects of exposures during pregnancy. His clinical interests include epidemiology of malformations, hereditary malformations, teratogens, causes of malformations, prenatal testing and diagnosis, and birth defects.

- **Russell Kirby, PhD, MS**
  Dr. Kirby is a distinguished Professor and Marrell Endowed Chair at University of South Florida. He is a human geographer with extensive training and experience in public health practice, academic medicine, and academic public health. Dr. Kirby serves as principal investigator on several contracts through the Florida Department of Public Health for birth defects surveillance and prevention, and collaborates in national and international networks on birth defects and developmental disabilities epidemiology, perinatal outcomes of women receiving assisted reproductive technology, and international migration and pregnancy outcomes.

- **Nevena Krstić, MS CGC**
  Ms. Krstić is an Assistant Professor and prenatal genetic counselor at the University of South Florida. She provides counseling in the Exposure in Pregnancy clinic at University of South Florida as well as counseling to the general public and/or healthcare providers who call the Florida Teratogen Information Service line requesting teratogen or reproductive information.

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Speaker Information

- **Judette Louis, MD**
  Dr. Louis is an Associate Professor and Division director of maternal-fetal medicine at the University of South Florida. Her clinical and research interests include maternal medical complications and the effect on maternal and neonatal morbidity and mortality.

- **Adetola Louis-Jacques, MD**
  Dr. Louis-Jacques is an Assistant Professor and maternal-fetal medicine specialist at the University of South Florida. Her research has centered on disparities in lactation and the impact of lactation on maternal health across the lifespan and aim to understand and improve mental health in the peripartum period.

- **Sarah G. Običan, MD**
  Dr. Običan is an Assistant Professor, maternal-fetal medicine subspecialist at the University of South Florida. She has completed a fellowship in Teratology and Toxicology and she is the medical director of the Florida Teratogen Information Service. The program offers an Exposure in Pregnancy clinic where patients receive up to date personalized risk assessment for their pregnancy. The program also offers a telephone-based service providing individualized risk assessments for pregnant women and their providers in the State of Florida.

- **Sonja Rasmussen, MD, MS**
  Dr. Rasmussen is a Professor at the University of Florida. Dr. Rasmussen recently joined the University of Florida after 20 years at the Centers for Disease Control and Prevention (CDC) in Atlanta. She held several positions in the National Center on Birth Defects and Development Disabilities including Medical Officer, Associate Director for Science, and Senior Scientist. Dr. Rasmussen’s research interests have focused on understanding causes of birth defects and other adverse pregnancy outcomes, the effects of medications during pregnancy on the fetus, morbidity and mortality related to genetic conditions, and the effects of infections during pregnancy on the pregnant woman and her fetus.

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Speaker Information

- Alfred Romeo, RN, PhD
  Dr. Romeo is a teratogen information specialist at MotherToBaby Utah. He is a past OTIS board member, having served as Secretary. He has been with the program for over seven years and has three publications in peer-reviewed articles and has published more than 30 newsletter and other articles related to teratogen counseling.

- Leyla Sahin, MD, FACOG, MBA
  Dr. Sahin is a Medical Officer in the Division of Pediatric and Maternal Health at the FDA. She is a board certified obstetrician-gynecologist with an expertise in FDA drug labeling.

- Anthony Scialli, MD
  Dr. Scialli is a specialist in reproductive and developmental toxicology and in obstetrics and gynecology. He is the Director of the Reproductive Toxicology Center, a non-profit foundation in Washington, D.C., which maintains Reprotox®, an online data base on the effects on reproduction of drugs, chemicals, biologicals, and physical agents.

- Katherine Wisner, MD
  Dr. Wisner is a psychiatrist and teratologist at Northwestern University. She is internationally recognized and funded expert in the treatment of mood disorders in women, with particular expertise in pregnancy and the postpartum period. Her research interests include impact of medication use during pregnancy for mood disorders.
Course Location

CAMLs

124 South Franklin Street, Tampa, FL

University of South Florida Center for Advanced Medical Learning and Simulation (CAMLs) is a state-of-the-art healthcare simulation and training center housed in an impressive three-story 90,000 square foot facility located in Downtown Tampa.

Our partner hotel:

Hilton Tampa Downtown

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Mention CAMLS to get discount rate

For list of additional hotels please visit:
https://camls-us.org/booking-information/downtown-hotels/

Register online at www.cme.hsc.usf.edu
Registration

**ONE EASY WAY TO REGISTER; TWO EASY WAYS TO PAY**

**To Register:** Go to [www.cme.hsc.usf.edu](http://www.cme.hsc.usf.edu) and click on “Course Calendar”

**Pay by Credit Card Online:** A payment confirmation will be emailed to the participant.

**Pay by Check:** After registering online, a payment voucher with instructions will be emailed to the participant. Registration will not be confirmed until payment is received.

**Please Note:** Payment will not be accepted onsite.

<table>
<thead>
<tr>
<th>Member</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Physicians</td>
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<tr>
<td>Genetic Counselors</td>
<td>$350.00</td>
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<tr>
<td>Allied Health Professionals</td>
<td>$350.00</td>
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<tr>
<td>Students/Residents/Fellows</td>
<td>$250.00</td>
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</tbody>
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Refunds, Cancelations, and Disclosures

Cancellations must be requested in writing via fax to 813-224-7864 or e-mail to cpdsupport@health.usf.edu, and received by February 10, 2019 in order to receive a refund. A $100 cancellation fee will be assessed to cover administrative costs. There are no refunds for no-shows or for cancellations received after February 10, 2019. Substitutions are welcome without penalty.

USF Health Office of Continuing Professional Development the Organization of Teratology Information Specialists and the Teratology Society reserve(s) the right to cancel this activity due to unforeseen circumstances. In the unlikely event that this activity is cancelled, USF Health and the Organization of Teratology Information Specialists and the Teratology Society will not be responsible for any expenses incurred by the participant.

Disclosures

USF Health adheres to ACCME Standards regarding commercial support of continuing medical education. It is the policy of USF Health that the faculty and planning committee disclose real or apparent conflicts of interest relating to the topics of this educational activity, that relevant conflict(s) of interest are resolved and also that speakers will disclose any unlabeled/unapproved use of drug(s) or device(s) during their presentation. Detailed disclosure will be made in the course syllabus.

If you have activity questions please contact cpdsupport@health.usf.edu, or call 813-224-7860.

The information provided at this CME/CE activity is for continuing education purposes only and is not meant to substitute for the independent medical/clinical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient’s medical condition.

This activity has received institutional financial support from the Organization of Teratology Information Specialists and the Teratology Society.

USF is an Equal Opportunity / Affirmative Action / Equal Access Institution. For disability accommodations contact Charmagne Branch-Price and 813-224-7859, within five days of the event.

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