

Update on

Fetal Diagnosis and Treatment



May 14 – 16, 2015

The Union League of Philadelphia, Philadelphia, Pa.

A course for physicians, advanced practice nurses, registered nurses,
genetic counselors, sonographers and social workers.

Sponsored by the
**Center for Fetal Diagnosis and Treatment and
the Division of Pediatric General, Thoracic and Fetal Surgery**

 **The Children's Hospital
of Philadelphia®**



**CENTER FOR FETAL
DIAGNOSIS & TREATMENT**

*Since its inception in 1995, the mission of the Center for Fetal Diagnosis
and Treatment at The Children's Hospital of Philadelphia has been
to provide comprehensive, state-of-the-art care for both mother and fetus.*

www.chop.edu/cme

General Information

Course Description

In celebration of the Center for Fetal Diagnosis and Treatment's 20th anniversary, the 2015 course continues the tradition of comprehensive education with an emphasis on outcomes and long-term prognosis for select birth defects. Didactic lectures, interactive case presentations and concurrent sessions are practical and pertinent to healthcare professionals seeking to improve maternal and neonatal care of pregnancies complicated by birth defects. General session topics include comprehensive reviews for select congenital anomalies, such as myelomeningocele, congenital diaphragmatic hernia, genitourinary and renal defects, chest masses, congenital heart disease, and complications of twin pregnancies. Lectures address key concepts in prenatal counseling, fetal surgery, perinatal surveillance, obstetrical care, postnatal surgical management and neonatal care pathways. Additional sessions cover advances in genetic testing such as NIPT and microarray, as well as tips for improving diagnostic skills in prenatal imaging. A unique patient care session focuses on challenges in care coordination and support that patient coordinators and counselors encounter when managing families with complex pregnancies.

The course will be held on Thursday, May 14, Friday, May 15, and Saturday, May 16, 2015, at The Union League of Philadelphia (www.unionleague.org). Following the sessions on Thursday, May 14, all attendees are invited to attend a cocktail reception. The registration fee includes continental breakfasts, luncheons, breaks, syllabus materials and the cocktail reception. Registration will begin at 7 a.m. each day.

Hotel Information

Downtown hotels will be in high demand and selling out well in advance of this week because of a number of large events occurring in Philadelphia, so please make your hotel reservations as soon as possible.

The Union League • Rooms have been reserved at the historic Inn at The Union League (www.unionleague.org) located at 1450 Sansom St., Philadelphia, Pa. 19102. The group rates are \$219 single and double occupancy plus a 15.5 percent local tax. The room rate includes a full breakfast and high-speed Internet. This rate will be available until Wednesday, April 22, 2015. Rooms may not be available after that date. To make reservations, call the Inn directly at 215-587-5570. Please mention the Fetal Diagnosis and Treatment Conference.



Dress Code at The Union League • The Union League requires that a jacket be worn by men dining in its restaurants, including the Marble Dining Rooms, Café Meredith, Boker Room and the Old Cafe. Jackets are not required at breakfast or Saturday lunch, which will be business casual. Business casual is defined as a collared shirt and slacks for men and appropriate attire for women. Jeans or other denimwear, athletic attire, T-shirts, shorts, baseball caps, sneakers or tattered clothes are never permitted on the first or second floor of the League House (where the restaurants and meeting rooms are located).

Hyatt at The Bellevue • Rooms have been reserved at the Hyatt (www.philadelphia.bellevue.hyatt.com) located at 200 South Broad St., Philadelphia, Pa. 19102. The group rates are \$235 single and double occupancy plus a 15.5 percent local tax. The room rate includes wireless Internet in your room. This rate will be available until Wednesday, April 22, 2015. Rooms may not be available after that date. To make reservations, call the Hyatt directly at 888-421-1442. Please mention the Fetal Diagnosis and Treatment Conference.

Marriott • Rooms have been reserved at the Downtown Marriott (www.marriott.com) located at 1201 Market St., Philadelphia, Pa. 19107. The group rates are \$199 single and double occupancy plus a 15.5 percent local tax. This rate will be available until Thursday, April 23, 2015. Rooms may not be available after that date. To make reservations, call the Marriott directly at 800-228-9290 or 215-625-2900. Please mention the Fetal Diagnosis and Treatment Conference.

Course Information

The Center for Fetal Diagnosis and Treatment is pleased to sponsor this three-day multidisciplinary educational forum for maternal-fetal medicine specialists, obstetricians, pediatric surgeons, radiologists, neonatologists, sonographers, advanced practice nurses, registered nurses, genetic counselors and mental health professionals.

Learning Objectives

Upon completion of this live activity, participants should be able to:

- Describe advances in prenatal genetic technologies such as NIPT, microarray and maternal serum screening
- Demonstrate enhanced knowledge of fetal imaging techniques, including calculation of anomaly-specific prognostic indicators such as the LHR and CVR measures
- Identify current maternal and fetal indications and outcomes for various fetal interventions
- Discuss prenatal counseling, obstetrical management, fetal surveillance and delivery planning for fetuses with select anomalies
- Describe neonatal challenges, care pathways, surgical options and outcomes for select defects
- Summarize multidisciplinary support, mental health needs, bereavement services and counseling methods for families with complex prenatal diagnoses

Accreditation

The Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation

The Children's Hospital of Philadelphia designates this live activity for a maximum of *21.75 AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing Accreditation

This activity has been submitted to the PA State Nurses Association for approval to award contact hours. The PA State Nurses Association is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

Genetic Counseling Accreditation

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 the NSGC for purposes of recertification. Approval for the requested CEUs and Contact Hours is currently pending.

Ultrasound Accreditation

An application has been submitted to SDMS for CME credit.

Services for the Disabled

Please contact the Continuing Medical Education Department at The Children's Hospital of Philadelphia at 215-590-5263 if you or anyone attending the conference requires special arrangements.

Cancellation and Refund Policy

The Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. In the event of cancellation or postponement, The Children's Hospital of Philadelphia will refund any registration fees, but is not responsible for any related costs, charges or expenses to participants, including cancellation charges assessed by airlines or travel agencies.

In order to process refunds for registration withdrawals, cancellations must be received in writing by Monday, May 4, 2015. No refunds will be issued thereafter. Refunds will be issued for the amount of the registration minus a \$50 service charge.



Register online at
www.chop.edu/cme

< Roberto Jr., CCAM, the Center's first fetal surgery patient, pictured during his fetal surgery (left) and now (right), age 18 and a freshman in college.

Thursday, May 14 • Concurrent Sessions All Day

Concurrent Session IA • Prenatal Genetics

7 a.m.	Registration and Continental Breakfast
7:45 a.m.	Welcome and Announcements
8 a.m.	The Fetal Genetic Sonogram <i>Alfred Z. Abuhamad, M.D.</i>
8:30 a.m.	Maternal Serum Screening in the Age of Non-invasive Prenatal Testing (NIPT) <i>Mark I. Evans, M.D.</i>
9 a.m.	Understanding Non-invasive Prenatal Testing (NIPT) <i>Lorraine Dugoff, M.D.</i>
9:45 a.m.	Role of Microarray Analysis in Prenatal Diagnosis <i>Ronald J. Wapner, M.D.</i>
10:30 a.m.	Break/Visit Exhibits
11 a.m.	Anomaly-specific Gene Panels <i>Sara L. Reichert, M.S., M.P.H., L.C.G.C.</i>
11:30 a.m.	What's New with 22q? <i>Donna McDonald-McGinn, M.S., C.G.C.</i>
Noon	Putting It All Together: What Should We Use and When? Panel — <i>Mark I. Evans, M.D.; Ronald J. Wapner, M.D.; Nabla Khalek, M.D., M.P.H.</i>
12:45 p.m.	Lunch
1:30 p.m.	Beyond Prenatal Diagnosis: Fetal Personalized Medicine <i>Diana W. Bianchi, M.D.</i>

Concurrent Session IB • Cardiac Anomalies

2:15 p.m.	CHD: Prenatal Diagnosis, Postnatal Management and Outcomes <i>Anita L. Szawast, M.D.</i>
3 p.m.	CHD: Fetal Interventions and Outcomes <i>Jack Rychik, M.D.</i>
3:30 p.m.	Break/Visit Exhibits
4 p.m.	Cardiac Arrhythmias: Prenatal Diagnosis, Management and Outcomes <i>Anita L. Szawast, M.D.</i>
4:30 p.m.	The Cardiac Neuroprotection and Neuroplasticity Program <i>J. William Gaynor, M.D.</i>
5 p.m.	Concurrent Session I Ends

Concurrent Session IIA • Multidisciplinary Care for Pregnancies Complicated by Fetal Anomalies

7 a.m.	Registration and Continental Breakfast
7:45 a.m.	Welcome and Announcements
8 a.m.	Choreographing the Multidisciplinary Delivery <i>Julie S. Moldenhauer, M.D.</i>
8:45 a.m.	Team Training: Education, Simulation and Safety <i>Michelle Olkkola, R.N., M.S.N.; Jodi E. Slepian, M.D.; Karen C. Pesta, M.S.N., C.N.M.; Peggy S. Batt, M.S.N., C.N.M.</i>
9:15 a.m.	Lactation Support in the High-risk Setting <i>Diane L. Spatz, Ph.D., R.N.-B.C.</i>
10 a.m.	Support for the SDU Family <i>Elizabeth A. Shaughnessy, M.S., C.C.L.S.</i>
10:30 a.m.	Break/Visit Exhibits
11 a.m.	Psychological Support for the At-risk Pregnant Mother <i>Joanna C.M. Cole, Ph.D., C.D.(DONA)</i>
11:45 a.m.	Impact of Palliative Care and Bereavement Programs Panel — <i>David A. Munson, M.D.; Joanna C.M. Cole, Ph.D., C.D.(DONA); Elizabeth A. Shaughnessy, M.S., C.C.L.S.; Jennifer Diem-Inglis, M.S.W., L.S.W.; Laura Palmer, M.Div.; Kendall and Michael Heath</i>
1 p.m.	Lunch

Concurrent Session IIB • Genitourinary Tract Anomalies

1:45 p.m.	Diagnosis and Embryology of Rare Genitourinary Tract Anomalies <i>Beverly G. Coleman, M.D.</i>
2:30 p.m.	Postnatal Surgical Approach to Rare Genitourinary Tract Anomalies <i>Douglas A. Canning, M.D.</i>
3 p.m.	Congenital Hydronephrosis and UPJ Obstruction <i>Thomas F. Kolon, M.D.</i>
3:30 p.m.	Break/Visit Exhibits
3:45 p.m.	LUTO: Diagnosis, Prenatal Management and Outcomes <i>Mark P. Johnson, M.D., M.S.</i>
4:15 p.m.	Congenital Cystic Renal Disease: Management and Outcomes <i>Bernard S. Kaplan, M.B.B.Ch.</i>
4:45 p.m.	Concurrent Session II Ends

Thursday Evening, May 14 Introduction to Fetal Therapy: Where Are We Now?

5 p.m.	Fetal Surgery Scorecard: 1995 vs. 2015 <i>N. Scott Adzick, M.D., M.M.M.</i>
5:30 p.m.	Future of Fetal Therapy Centers <i>Mark P. Johnson, M.D., M.S.</i>
6 p.m.	Adjourn
6 – 7:30 p.m.	Reception

Friday, May 15

Management of Common Anomalies

- 7 a.m. Registration and Continental Breakfast
Visit Exhibits
- 7:45 a.m. Announcements
- 8 a.m. Sonographic and MRI Prenatal Diagnosis of Fetal Chest Masses
Steven C. Horii, M.D.; Ann M. Johnson, M.D.; Teresa Victoria, M.D., Ph.D.
- 8:45 a.m. Prenatal Management of Fetal Chest Masses
Nahla Khalek, M.D., M.P.H.
- 9:15 a.m. Fetal Chest Masses: Postnatal Surgical Management and Outcomes
Alan W. Flake, M.D.
- 9:45 a.m. Prenatal Management of Congenital Diaphragmatic Hernia (CDH)
Julie S. Moldenhauer, M.D.
- 10:15 a.m. Break/Visit Exhibits
- 10:45 a.m. CDH: Prenatal Treatment with Fetal Tracheal Occlusion (FETO)
Jan Deprest, M.D., Ph.D.
- 11:15 a.m. CDH: Postnatal Acute Care and Surgery
Holly L. Hedrick, M.D.; Natalie E. Rintoul, M.D.
- 11:45 a.m. The Pulmonary Hypoplasia Program: Tracking Long-term Outcomes
Holly L. Hedrick, M.D.; Lisa M. Herkert, M.S.N., C.R.N.P.
- 12:15 p.m. Lunch
- 1 p.m. Neural Tube Defects (NTD): Diagnosis with Ultrasound and MRI
Steven C. Horii, M.D.; Deborah M. Zarnow, M.D.
- 1:45 p.m. NTD: Genetics, Counseling and Obstetrical Management
Mark P. Johnson, M.D., M.S.
- 2:15 p.m. NTD: Fetal Surgery Experience and Outcomes
N. Scott Adzick, M.D., M.M.M.
- 2:45 p.m. NTD: Neonatal Care Protocols
Natalie E. Rintoul, M.D.; Anne M. Ades, M.D.
- 3:15 p.m. NTD: Neurosurgical Repair and Long-term Challenges
Gregory G. Heuer, M.D., Ph.D.
- 3:45 p.m. Break/Visit Exhibits
- 4 p.m. Prenatal Diagnosis and Management of Omphalocele
Juan Martinez-Poyer, M.D.
- 4:30 p.m. Prenatal Diagnosis and Management of Gastroschisis
Julie S. Moldenhauer, M.D.
- 5 p.m. Surgical Management of Abdominal Wall Defects
William H. Peranteau, M.D.
- 5:30 p.m. Fetal Therapy Research Networks
Julie S. Moldenhauer, M.D.
- 6 p.m. Adjourn

Stella and Olivia, TTTS, Hoboken, N.J., now 6 years old. >

Saturday, May 16

IUGR and Complications of Twins

- 7 a.m. Registration and Continental Breakfast • Visit Exhibits
- 7:45 a.m. Announcements
- 8 a.m. Singleton IUGR: Prenatal Diagnosis, Etiology and Management Strategies
Edgar Armando Hernandez-Andrade, M.D., Ph.D.
- 8:45 a.m. Singleton IUGR: Neonatal Challenges in Survivors
Natalie E. Rintoul, M.D.; Maria V. Fraga, M.D.
- 9:15 a.m. Singleton IUGR: Future Risks for Adult Disease
Rebecca A. Simmons, M.D.
- 9:45 a.m. Twins: Uncomplicated Monochorionic vs. Dichorionic Pregnancies
Nahla Khalek, M.D., M.P.H.
- 10:15 a.m. Break/Visit Exhibits
- 10:45 a.m. Complicated MC/DA Twins: Twin to Twin Transfusion Syndrome (TTTS)
Jan Deprest, M.D., Ph.D.
- 11:30 a.m. Complicated MC/DA Twins: Selective Intrauterine Growth Restriction (sIUGR)
Nahla Khalek, M.D., M.P.H.
- 12:15 p.m. Lunch
- 12:45 p.m. Fetal Membrane Pathophysiology in TTTS
Ramesh Papanna, M.D., M.P.H.
- 1:15 p.m. Cardiovascular Complications of the Monochorioangiopus
Jack Rychik, M.D.
- 1:45 p.m. Complicated MC/DA Twins: TAPS and TRAPS
Nahla Khalek, M.D., M.P.H.
- 2:15 p.m. The Future: Fetal Stem Cell/Gene Therapy and the Artificial Placenta
Alan W. Flake, M.D.
- 3 p.m. Adjourn





Course Directors

N. Scott Adzick, M.D., M.M.M.

*Surgeon-in-Chief
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Professor of Pediatrics, and Obstetrics and Gynecology*

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Licensed Genetic Counselor

The Lynne and William Garbose Family Special Delivery Unit of The Center for Fetal Diagnosis and Treatment

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Certified Nurse Midwife

Joanna C.M. Cole, Ph.D., C.D.(DONA)

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Chaplain

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*Modality Chief, Ultrasound
Clinical Chief, Medical Informatics
Professor of Radiology*

Fetal Heart Program of The Cardiac Center at The Children's Hospital of Philadelphia

Jennifer Diem-Inglis, M.S.W., L.S.W.

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Director, 22q and You Center
Clinical Professor of Pediatrics*

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*Attending Neonatologist
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Associate Professor of Clinical Pediatrics*

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*Medical Director, Neonatal ECMO Program
Associate Medical Director, Neonatal Surgery and Perioperative Services
Co-Director, Pulmonary Hypoplasia Program
Attending Neonatologist
Assistant Professor of Clinical Pediatrics*

Rebecca A. Simmons, M.D.

*Attending Neonatologist
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Deborah M. Zarnow, M.D.

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Guest Faculty — National

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Associate Dean for Clinical Affairs
Eastern Virginia Medical School*

Diana W. Bianchi, M.D.

*Executive Director, Mother Infant Research Institute
Vice Chair for Research, Department of Pediatrics
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Natalie V. Zucker Professor of Pediatrics, Obstetrics and Gynecology
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Director, Comprehensive Genetics, LLC
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Mount Sinai School of Medicine*

Kendall and Michael Heath

Parents

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Planning Committee – The Children's Hospital of Philadelphia

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Susan S. Spinner, R.N., M.S.N.

*Advanced Practice Nurse
Lead Fetal Therapy Coordinator
Center for Fetal Diagnosis and Treatment*

Registration • Deadline Monday, May 4, 2015 • Register online at www.chop.edu/cme

Name _____

Credentials/Degree _____

Hospital/Institution/Affiliation _____

Specialty _____

Home Address _____

City _____ State/Province _____ ZIP/Postal Code _____

Phone _____ Fax _____

Email (Required) _____

Concurrent Sessions:

(Please choose two sessions.)

Thursday, May 14, 2015

- ☐ IA Prenatal Genetics
- ☐ IB Cardiac Anomalies
- ☐ IIA Multidisciplinary Care for Pregnancies Complicated by Fetal Anomalies
- ☐ IIB Genitourinary Tract Anomalies

☐ Yes, I will attend the cocktail reception/tour on Thursday, May 14, 2015

Registration Fees • Full Conference

(Thursday through Saturday: 3 days)

- ☐ \$595 Physicians
- ☐ \$375 Residents/Fellows and Other Healthcare Professionals

☐ **Additional \$25 fee for Genetic Counselors applying for NSGC CEUs.**

Method of Payment

☐ Personal Check ☐ Institutional Check
(Please make all checks payable to The Children's Hospital of Philadelphia.)

☐ MasterCard ☐ VISA ☐ American Express ☐ Discover

Credit Card # _____

Exp. Date _____

Mail/fax the completed registration form and payment to:

Ms. Micah Holliday, Continuing Medical Education Department
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Continuing Medical Education Department

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RETURN SERVICE REQUESTED



Update on

Fetal Diagnosis and Treatment

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