



From
the
Start

*Innovations in the Care of Congenital
Anomalies Before, During and After Birth*

May 2-4, 2024

HUB for Clinical Collaboration

Children's Hospital of Philadelphia



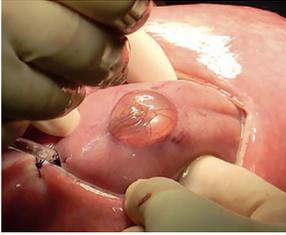
**Children's Hospital
of Philadelphia®**

Richard D. Wood Jr.
Center for Fetal Diagnosis & Treatment



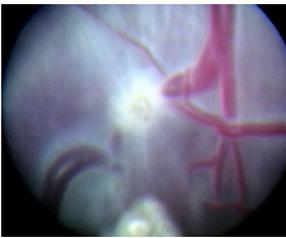
COURSE OVERVIEW

This three-day conference will enhance knowledge in maternal-fetal care and overall pregnancy outcomes, particularly as it relates to fetal intervention and maternal, fetal, and neonatal outcomes. Each day will be divided into segments of care, from fetal surveillance to maternal/fetal outcomes for a variety of conditions diagnosed in utero. Topics will include fetal treatments, risks and benefits to both the mother and fetus. Each segment will culminate with breakthroughs in research and care through “FetalTED” presentations. The integration of this knowledge can improve patient experience, clinical knowledge and long-term maternal/fetal outcomes.



TARGET AUDIENCE

The target audience is physicians, including maternal-fetal medicine specialists, obstetricians, pediatric/fetal surgeons, cardiologists, neonatologists, radiologists and geneticists in addition to pediatric subspecialists involved in long-term care of children diagnosed with fetal conditions in utero. Other healthcare providers who will benefit from participation include midwives, obstetric and neonatal nurse practitioners, sonographers, genetic counselors, social workers, psychologists, psychiatrists and nurses.



GENERAL INFORMATION

The conference will be held at Children’s Hospital of Philadelphia in the HUB Auditorium. The registration fees include continental breakfast, snack breaks, lunch and syllabus material.

REGISTRATION FEES

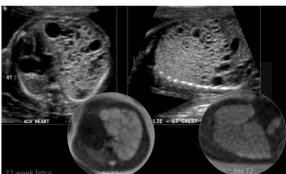
Three-day registration: Physicians.....	\$475
Three-day registration: Other healthcare professionals.....	\$350
Two-day registration: Physicians.....	\$375
Two-day registration: Other healthcare professionals.....	\$250
One-day registration: Physicians.....	\$225
One-day registration: Other healthcare professionals.....	\$175



COURSE OBJECTIVES

Upon completion of this course, participants should be able to:

1. Discuss prenatal counseling, obstetric management, fetal therapy options, fetal surveillance and delivery planning for fetuses with select fetal differences.
2. Describe neonatal challenges and management as well as surgical options, approaches and outcomes for these congenital differences.
3. Summarize multidisciplinary support, including genetic counseling, mental health screening and psychological support as part of the care pathway for families with complex prenatal diagnoses.
4. Review research and future implications associated with fetal therapy.
5. Recognize the prenatal diagnosis of a spectrum of congenital cardiac differences.
6. Describe how fetal echocardiography can aid in management of fetuses with non-cardiac conditions.
7. Identify neurodevelopmental outcomes in prenatally diagnosed cardiac differences.



ACCREDITATION



JOINTLY ACCREDITED PROVIDER™
INTERPROFESSIONAL CONTINUING EDUCATION

In support of improving patient care, this activity has been planned and implemented by Children's Hospital of Philadelphia. Children's Hospital of Philadelphia 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.

DESIGNATION OF CREDIT

Physicians: Children's Hospital of Philadelphia designates this live activity for a maximum of 16.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses: This program provides 16.5 ANCC contact hours.

Joint Accreditation:



IPCE CREDIT™

This activity was planned by and for the healthcare team, and learners will receive 16.5 Interprofessional Continuing Education (IPCE) credit for learning and change.

CONTINUING GENETIC COUNSELOR APPROVED PROVIDER STATEMENT

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

HOTEL ACCOMODATIONS

The Study located just a few blocks from Children's Hospital. The group overnight rate is \$239 single and double occupancy plus a 16.25% room tax. Participants are required to make their own hotel reservations by calling The Study directly at 215-387-1400. Please mention the name of the conference when making your reservation. The special room rate will be available until Monday, April 1, 2024. After that date, reservations will be accepted on a space and rate availability basis.

CANCELLATION AND REFUND POLICY

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 hospital will refund registration fees, but is not responsible for any related costs, charges, or expenses to participants, including cancellation charges assessed by airlines or travel agencies. To process refunds, cancellations must be received in writing by Monday, April 22, 2024. No refunds will be issued thereafter.

SERVICES FOR PEOPLE WITH DISABILITIES

If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.



REGISTER ONLINE: [CHOP.CLOUD-CME.COM](https://chop.cloud-cme.com)

PROGRAM • THURSDAY, MAY 2, 2024

DAY ONE AT A GLANCE: Congenital Diaphragmatic Hernia (CDH), Myelomeningocele (MMC), Lung Lesions and Maternal-Fetal (Team) Medicine

- 7:45 a.m.** **Registration and Breakfast**
- 8:30 a.m.** **Welcome and Introduction**
Julie S. Moldenhauer, MD
- 8:50 a.m.** **Congenital Diaphragmatic Hernia (CDH)
Prenatal Imaging and Patient Counseling**
Juliana S. Gebb, MD
Edward R. Oliver, MD, PhD
- 9:10 a.m.** **Fetal Endoscopic Tracheal Occlusion (FETO): Benefits and Challenges**
Holly L. Hedrick, MD
- 9:30 a.m.** **From the Delivery Room to NICU Discharge**
Natalie E. Rintoul, MD
- 9:50 a.m.** **Life After the NICU: Patient Follow-up Initiatives**
Renee P. Ebbert, RN, MSN, CRNP
- 10:10 a.m.** **FetalTED: Pumpless ECMO**
Emily A. Partridge, MD, PhD, MHS
- 10:20 a.m.** **BREAK**
- 10:40 a.m.** **Fetal Lung Lesions
Prenatal Imaging and Diagnosis**
Edward R. Oliver, MD, PhD
- 11 a.m.** **Maternal-Fetal Medicine (MFM) Management**
Nahla Khalek, MD, MPH, MSED
- 11:20 a.m.** **Pediatric Surgical Management**
William H. Peranteau, MD
- 11:40 a.m.** **FetalTED: Pathology and Genetic Etiologies of Lung Lesions**
Jennifer E. Pogoriler, MD, PhD
- 11:50 a.m.** **Q & A**
- Noon** **Guess the Diagnosis: Case 1**
Juliana S. Gebb, MD
- 12:15 p.m.** **LUNCH**

Fetal Myelomeningocele

- 1:15 p.m.** **Prenatal Imaging Using Ultrasound and Magnetic Resonance Imaging**
Minh-Huy Le Huynh, MD
Matthew T. Whitehead, MD
- 1:35 p.m.** **MFM Management**
Julie S. Moldenhauer, MD
- 1:55 p.m.** **Surgical Management Including Endoscopic Third Ventriculostomy**
Gregory G. Heuer, MD, PhD
- 2:15 p.m.** **Postnatal Care Pathways: The Importance of a Team Approach**
Katie M. Schmidt, MSN, CRNP
- 2:35 p.m.** **FetalTED: The Role of Stem Cell Therapy in Fetal Open Neural Tube Defects**
Shinjiro (Shin) Hirose, MD
- 2:55 p.m.** **BREAK**
- 3:15 p.m.** **Trauma-informed MFM Care**
Christina Paidas Teefey, MD
- 3:35 p.m.** **It Takes a Village to Care for the Special Delivery Unit Patient**
Joanna C. M. Cole, PhD, PMH-C
- 4 p.m.** **A Day-in-the-Life on the Special Delivery Unit**
Serena Wu, MD
Julie S. Moldenhauer, MD
- 4:20 p.m.** **The ABCs of Coordinating Fetal Care: Supporting Families and Medical Teams**
Jill A. Combs, MSN, RN
Stefanie B. Kasperski, MS, LCGC
Ellyn B. Rebecca, MA, BSN, RN
- 4:40 p.m.** **FetalTED: The New Patient Tower: Planning for the Future**
Julie S. Moldenhauer, MD
Susan S. Spinner, MSN, RN
- 4:50 p.m.** **Q & A**
- 5 p.m.** **Adjourn for the Day**
Dinner on your own

PROGRAM • FRIDAY, MAY 3, 2024

DAY TWO AT A GLANCE: Monochorionic Pregnancies, Current and Future Innovations at CHOP, Fetal Neurology and Urology

- 7:45 a.m.** **Registration and Breakfast**
- 8:30 a.m.** **Welcome and Introduction**
Juliana S. Gebb, MD
Nahla Khalek, MD, MPH, MEd
- 8:50 a.m.** **Complex Monochorionic (MC) Pregnancies**
Innovative Surgical Approaches to Twin-to-Twin Transfusion Syndrome (TTTS)
Greg Ryan, MB
- 9:10 a.m.** **Updates in Diagnosing and Managing Selective Fetal Growth Restriction (sFGR)**
Juliana S. Gebb, MD
- 9:30 a.m.** **Monochorionic Monoamniotic (MCMA)/Conjoined Twinning**
Nahla Khalek, MD, MPH, MEd
- 9:50 a.m.** **Genetic Evaluation of MC Pregnancies**
Lisa H. Pilchman, MS, LCGC
- 10:10 a.m.** **FetalTED: Twin Anemia Polycythemia Sequence (TAPS)**
Liesbeth Lewi, MD, PhD
- 10:20 a.m.** **BREAK**
- 10:40 a.m.** **Fetal and Neonatal Foresights: Upcoming Innovations**
EXTRa-uterine Environment for Neonatal Development (EXTEND)
Alan W. Flake, MD
- 11 a.m.** **Delivery Room of the Future**
Anne M. Ades, MD, MEd
- 11:20 a.m.** **Esophageal Airway and Treatment (EAT)**
Thomas E. Hamilton, MD
- 11:40 a.m.** **Comprehensive Vascular Anomalies**
Michael D. Fox, MD, MEd
- Noon** **In Utero Gene Editing**
William H. Peranteau, MD
- 12:20 p.m.** **Q & A**
- 12:30 p.m.** **Guess the Diagnosis: Case 2**
Christina Paidas Teefey, MD
- 12:45 p.m.** **LUNCH**

FETAL NEUROLOGY

- 1:45 p.m.** **When is Ventriculomegaly (VM) a Concern?**
Shelly Soni, MD
- 2:05 p.m.** **Prenatal Evaluation of Central Nervous System (CNS) Hemorrhage**
Christina Paidas Teefey, MD
- 2:25 p.m.** **Neurogenetics and Complex Malformation Syndromes**
Haley Crane, MS, LCGC

2:45 p.m. **BREAK**

FETAL UROLOGY

- 3 p.m.** **Prenatal Imaging and Diagnosis of Congenital Anomalies of the Kidneys and Urinary Tract (CAKUT)**
Minh-Huy Le Huynh, MD
- 3:20 p.m.** **MFM Management of CAKUT**
Shelly Soni, MD
- 3:40 p.m.** **Genetics of CAKUT**
Natalie E. Burrill, MS, LCGC
- 4 p.m.** **Updates from the Renal Anhydramnios Fetal Therapy (RAFT) Trial**
Jena L. Miller, MD
- 4:20 p.m.** **FetalTED: The Multi-Institutional Bladder Exstrophy Consortium (MIBEC)**
Dana Weiss, MD
- 4:30 p.m.** **Q & A**
- 4:45 p.m.** **Fetal Therapy: Past, Present and Future**
N. Scott Adzick, MD, MMM
- 5 p.m.** **Cocktail Reception**
- 6 p.m.** **Adjourn for the Day**

PROGRAM • SATURDAY, MAY 4, 2024

DAY THREE AT A GLANCE: Empowering Innovation: Updates from the Fetal Heart Program (FHP) at CHOP

- 8 a.m.** **Registration and Breakfast**
- 8:30 a.m.** **Welcome and Introduction**
Jack Rychik, MD
- 8:50 a.m.** **Prenatal Counseling: Pearls and Principles for the Spectrum of Congenital Heart Disease**
Jack Rychik, MD
- 9:10 a.m.** **A Unique Classification System for Delivery of Congenital Heart Disease and Our IMPACT Experience**
Jack Rychik, MD
- 9:30 a.m.** **Maternal Hyperoxygenation: The Value of a Provocative Test to Help Understand Complex Fetal Heart Disease**
Anita Szwast, MD
- 9:50 a.m.** **Cardiovascular Assessment in Conditions of Prenatal Strain: High-output States of Volume Overload in Fetal Anemia, Agenesis of Ductus Venosus and Sacrococcygeal Teratoma**
Jill J. Savla, MD
- 10:10 a.m.** **BREAK**
- 10:30 a.m.** **When Conditions Don't Appear as Straightforward as They Seem: Cases of Complex Congenital Heart Disease and Their Management**
Amanda J. Shillingford, MD
- 10:50 a.m.** **FetalTED: Brain Development and Neurological Outcomes in Fetal Congenital Heart Disease**
Daniel J. Licht, MD
- 11:10 a.m.** **Q & A**
- 11:30 a.m.** **Conference Adjourns**

COURSE DIRECTORS

Juliana S. Gebb, MD

Maternal-Fetal Medicine

Associate Professor of Clinical Obstetrics and Gynecology in Surgery

Nahla Khalek, MD, MPH, MSED

Maternal-Fetal Medicine and Clinical Genetics

Director, Prenatal Diagnosis and Fetal Therapy Fellowship

Associate Professor of Clinical Obstetrics and Gynecology in Surgery

FACULTY

Anne M. Ades, MD, MSED

Director, Neonatal Education and Simulation Training (NEST)

Medical Co-director, Center for Simulation, Advanced Education and Innovation

Medical Co-director, SDU Neonatal Service

Director of ECMO Education, ECMO Center

N. Scott Adzick, MD, MMM

Director, Center for Fetal Diagnosis and Treatment

Surgeon-in-Chief, Department of Surgery

Professor of Surgery, Obstetrics and Gynecology

Kristen Behrens, MBA (Planner)

Senior Manager, Strategy, Communications and New Business Development

Center for Fetal Diagnosis & Treatment

Natalie E. Burrill, MS, LCGC

Genetic Counselor

Joanna C. M. Cole, PhD, PMH-C

Clinical Psychology

Manager of Psychosocial Services

Professor of Clinical Psychology in Psychiatry

Jill A. Combs, MSN, RN

Clinical Program Director, Fetal Heart Program

Haley Crane, MS, LCGC

Genetic Counselor

Renee P. Ebbert, RN, MSN, CRNP

Surgical Nurse Practitioner

Alan W. Flake, MD

Director, Center for Fetal Research

Professor of Surgery, Obstetrics and Gynecology

Elizabeth E. Foglia, MD, MA, MSCE

Neonatology

Harriet and Ronald Lassin Newborn/Infant Intensive Care Unit

Associate Professor of Pediatrics, Neonatology & Newborn Services

Michael D. Fox, MD, MED

Pediatrics

Director of Education, Comprehensive Vascular Anomalies Program

Associate Professor of Clinical Pediatrics

Thomas E. Hamilton, MD

Pediatric Surgery

Co-Director of the Esophageal and Airway Treatment (EAT) Program

Associate Professor of Surgery

Holly L. Hedrick, MD

Surgical Director, ECMO Center

Co-Director, Neonatal Surgical Team

Director, Pulmonary Hypoplasia Program

Professor of Surgery

Gregory G. Heuer, MD, PhD

Director of Prenatal and Neonatal Neurosurgery

Associate Professor Neurosurgery

Shinjiro (Shin) Hirose, MD

Director of Pediatric Surgery

Shriners Children's Northern California

Chief of the Division of Pediatric and Fetal Surgery

University of California, Davis Children's Hospital

Professor

University of California Davis School of Medicine

Stefanie B. Kasperski, MS, LCGC

Fetal Therapy Education Specialist

Minh-Huy Le Huynh, MD

Pediatric Radiology

Liesbeth Lewi, MD, PhD

Professor and Consultant Obstetrics Gynecology

Department of Obstetrics and Gynaecology, University Hospitals Leuven

Leuven, Vlaams-Brabant, Belgium

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Prenatal-Neonatal Neurology Program

Division of Prenatal and Translational Pediatrics

Developing Brain Institute

Children's National Hospital, Washington, DC

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The Johns Hopkins Center for Fetal Therapy, Baltimore

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Maternal-Fetal Medicine and Clinical Genetics

Medical Director, Garbose Family Special Delivery Unit

Director of Obstetrical Services

Professor of Clinical Obstetrics and Gynecology in Surgery

Edward R. Oliver, MD, PhD

Pediatric Radiology

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Emily A. Partridge, MD, PhD, MHS

Fetal/Pediatric Surgery

Assistant Professor of Surgery

William H. Peranteau, MD

Fetal/Pediatric Surgery

Associate Professor of Surgery

Lisa H. Pilchman, MS, LCGC

Genetic Counselor

Jennifer E. Pogoriler, MD, PhD

Pathology

Assistant Professor of Pathology and Laboratory Medicine

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Team Lead, Fetal Therapy Coordinators

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Medical Director, Neonatal ECMO Program
Professor of Clinical Pediatrics

Greg Ryan, MB
Director, Ontario Fetal Centre at Mount Sinai Hospital, Toronto
Professor, Obstetrics and Gynecology, University of Toronto

Jack Rychik, MD
Pediatric/Fetal Cardiology
Director, Fetal Heart Program
Director, Fontan Rehabilitation, Wellness, Activity and Resilience
Development (FORWARD) Program
Professor of Pediatrics

Jill J. Savla, MD
Pediatric/Fetal Cardiology
Assistant Professor of Pediatrics

Katie M. Schmidt, MSN, CRNP
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