

The 17th Philadelphia Prenatal Diagnosis Conference - Agenda

Thursday, June 5, 2025

7:00-7:30 AM		Breakfast	
7:30 – 7:45 AM		Welcome Address - Ossie Geifman-Holtzman, MD, Owen Montgomery, MD	
Session 1: The First Trimester - From Australia to the USA Moderator: Ossie Geifman-Holtzman, MD Lecture Hall C			
7:45-8:25 AM The First Trimester Anatomy Scan Simon Meagher, MD			
8:25-8:55 AM First and Early Second Trimester Fetal MRI for Severe Anomalies Seen on Sonography Judy Estroff, MD			
8:55-9:05 AM		Break	
Session 2: Clinical Management and Treatment Moderator: Elena Ashkinadze, MS, LGC Lecture Hall C		Session 3: The First Trimester Scan Moderator: Dennis Wood, RDMS Lecture Hall D	
9:05-9:35 AM	Myelomeningocele - Diagnosis, Repair and Treatment Alireza Shamshirsaz, MD	9:05-9:25 AM	The First Trimester Scan Ana Monteagudo, MD
9:35-9:55 AM	First Trimester Screening and Prevention of Pre-eclampsia – Australian Experience Daniel Rolnik, MD	9:25-9:50 AM	Evolution from NT to First Trimester Anatomy Scan Shifa Turan, MD, RDMS
9:55-10:15 AM	Early Onset Pre-eclampsia Screening - USA Experience Ozhan Turan, MD	9:50-10:15 AM	Pregnancy of Unknown Location Ana Monteagudo, MD
10:15-10:30 AM Break			
Session 4: Cancer Genetics in the Reproductive Setting Moderator: Natalia Wisniewski, MS, LGC Lecture Hall C		Session 5: The First Trimester Scan (con't) Moderator: Dennis Wood, RDMS Lecture Hall D	
10:30-11:00 AM	Cancer Genetic Testing in the OBGYN Setting Sherry Grumet, MS, LGC	10:30-11:00 AM	Scar Pregnancy - Diagnosis & Treatment Ilan Timor, MD & Ozhan Turan, MD
11:00-11:30 AM	Maternal Malignancy: Updates from the NIH IDENTIFY Study Amy Turriff, MS, LGC	11:00-11:20 AM	Utility of 1st Trimester Fetal Doppler Assessment Shifa Turan, MD, RDMS
11:30-11:50 AM	Newborn Screening for Cancer Predisposition Genes Richard Parad, MD, MPH	11:20-11:25 AM Break	
		Session 6: Twins Moderator: Ana Monteagudo, MD Lecture Hall D	
11:50-12:15 PM	PGT-M for Cancer Syndromes Joe Leigh Simpson, MD	11:25-11:45 PM	First Trimester Ultrasound in Twins Asma Khalil, MD
		11:45-12:15 PM Risk Stratification of Monochorionic Multiples Ahmet Baschat, MD	

12:15-2:00 PM Lecture Hall C-D-E Sponsored Talks: 12:40–1:05 PM <i>Thermo Fisher Scientific</i> Enhancing Preeclampsia Care with Angiogenic Biomarkers (sFlt-1/PIGF ratio) Susan Volger, MD 1:05-1:30 PM <i>Inozyme</i> Interim Clinical and Safety Data of INZ-701 Treatment in Infants and Young Children with ENPP1 Deficiency Yves Sabbagh, PhD 1:30-1:55 PM <i>Biomarin</i> The Clinical Management of Achondroplasia Philippe Backeljauw, MD	
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Session 7: Carrier Testing Moderators: Natalia Wisniewski, MS, LGC Elena Ashkinadze, MS, LGC Lecture Hall C		Session 8: Twins (continued) Moderator: Ana Monteagudo, MD Lecture Hall D	
2:00-2:25 PM	Historical Take on Eugenics and Impact on Reproductive Genetics Laura Hercher, PhD	2:00-2:35 PM	Twin to Twin Transfusion, TRAP, Selective IUGR Alireza Shamshirsaz, MD
2:25-2:55 PM	Counseling Considerations Pre/Post Carrier Testing Anthony Gregg, MD & Elena Ashkinadze, MS, LGC	2:35-3:00 PM	Controversies in Twin Anemia Polycythemia Sequence Asma Khalil, MD
2:55-3:20 PM	SMA and Cystic Fibrosis -Diagnosis & Therapy Anthony Gregg, MD & Natalia Wisniewski, MS, LGC	3:00-3:05 PM	Break
		Session 9: The GU System, The Face Moderator: Angie Jelin, MD Lecture Hall D	
3:20-3:45 PM	Biotinidase Deficiency - Common Results on Carrier Screening Peter Benn, PhD & Barry Wolf, MD	3:05-3:25 PM	The Complexity of Renal Agenesis Angie Jelin, MD
3:45-4:05 PM	Duchenne Muscular Dystrophy - The Boston Experience Richard Parad, MD, MPH	3:25-3:45 PM	MFM Approach to Pregnancy with GU Anomalies Louise Wilkins Haug, MD, PhD
4:05 – 4:30 PM	Legal Concept of Personhood and Repercussions for Prenatal Care Laura Hercher, PhD	3:45-4:05 PM	Prenatal Ultrasound Diagnosis of GU Anomalies Judy Estroff, MD
		4:05-4:30 PM	Serial Amnioinfusion for Fetal Renal Failure: Experience from the RAFT Trial Jena Miller, MD
4:30-4:45 PM	Break	Break	

Session 10: Genomic Sequencing Moderators: Natalia Wisniewski, MS, LGC Elena Ashkinadze, MS, LGC Lecture Hall C		Session 11: The GU System, The Face, (continued) Moderator: Angie Jelin, MD Lecture Hall D	
4:45-5:10 PM	Genomic Sequencing for Stillbirths Louise Wilkins Haug, MD, PhD Prenata	4:45-5:00 PM	To Shunt or not to Shunt Alireza Shamshirsaz, MD
5:10-5:35 PM	The Clinical Utility of Panels to Exome to Whole Genome Sequencing Igna Van den Veyver, MD	5:00-5:25 PM	Craniofacial Anomalies- Ultrasound Diagnosis Judy Estroff, MD
5:35-6:00 PM	Genomic Sequencing- Reflex to the Neonatal Period Jessica Giordano, MS, CGC	5:25-5:45 PM	Fetal Indications - The EXIT Procedure Alireza Shamshirsaz, MD
6:00-6:25 PM	Sequencing in the NICU Nancy Spinner, PhD	5:45-6:10 PM	Ultrasound Diagnosis of GI Anomalies Judy Estroff, MD
6:25-6:50 PM	Genomic Sequencing of the Normal and the Anomalous Fetus Jessica Giordano, MS, CGC	Session 12: Placenta Accreta Spectrum Moderator: Dennis Wood, RDMS Lecture Hall D	
6:50-7:00 PM	Q&A		
		6:10-7:00 PM	Placenta Accreta Diagnosis, Management and Treatment Ilan Timor, MD Ozhan Turan, MD Alireza Shamshirsaz, MD
Session 13: Women's Rights Moderator: Ossie Geifman-Holtzman, MD Lecture Hall C			
7:00 -7:30 PM The Post Dobbs battlefield: The Second American Civil War Mark Evans, MD			

Friday, June 6, 2025

7:00-7:30 AM Breakfast 7:30-7:45 AM Welcome – Ossie Geifman-Holtzman, MD		
Session 14: Complex Topics – MFM/Genetics Moderator: Ossie Geifman-Holtzman, MD Lecture Hall C - D		
7:45-8:15 AM SMFM/ACMG / ACOG Guidelines Lorraine Dugoff, MD & Anthony Gregg, MD		
8:15-8:40 AM The Critical Role of First Trimester Ultrasound in the cfDNA Era Shifa Turan, MD, RDMS		
8:40-9:05 AM Holoprosencephaly Spectrum Ana Monteagudo, MD		
9:05-9:30 AM Fetal Growth Restriction Ahmet Baschat, MD		
9:30-10:00 AM Preimplantation Genetic Testing 2025 Joe Leigh Simpson, MD		
10:00-10:25 AM Break: Poster Session – Award Ceremony		
Session 15: Pregnancy Complications & Disorders Moderator: Ossie Geifman-Holtzman, MD Lecture Hall C	Session 16: Cardio-Obstetrics Moderators: Dennis Wood RDMS Shubhika Strivastava, MD Lecture Hall D	Session 17: The Fetal Brain Moderator: Natalia Wisniewski, MS Lecture Hall E
10:25-10:50 AM Obstetric Anesthetic Considerations for Patients with Genetic Disorders Rachel Kearns, MD	10:25-10:30 AM Opening Remarks: Introduction Dennis Wood ARDMS & Shubhika Srivastava, MD	10:25-10:50 AM Normal Brain Anatomy in the 2nd Trimester Ana Monteagudo, MD
10:50-11:15 AM Fetal Neonatal Alloimmune Thrombocytopenia Joanne Verweij, MD, PhD	10:30-10:55 AM Aortopathies Uri Elkayam, MD	10:50-11:10 AM Fetal Cortical Development Ilan Timor, MD
11:15-11:35 PM Genomics of Non -Immune Hydrops Mary Norton, MD	10:55-11:20 AM Maternal hyperoxygenation in Improving Congenital Heart Disease Anita Szwast, MD	11:10-11:30 AM The Posterior Fossa Gustavo Malingier, MD
11:35-12:00 PM Fetal anemia- Management and Etiology Ahmet Baschat, MD	11:20-11:45 AM Peripartum Myopathy Uri Elkayam, MD	11:30-11:50 AM Cavum veli interpositi Ana Monteagudo, MD
12:00-12:30 PM RhD NIPT and Rh Alloimmunization Joanne Verweij, MD, PhD	11:45 -12:05 PM Delivery Planning for Congenital Heart Disease Mary Donofrio, MD	11:50-12:10 PM The Corpus Callosum Ilan Timor, MD
	12:05-12:30pm Complex Congenital Heart Disease in Adults - Long Term Outcomes and Implications for Pregnancy Uri Elkayam, MD	12:10-12:30 PM The Approach to Ventriculomegaly Gustavo Malingier, MD

12:30-2:00 PM Lecture Hall C - D - E Sponsored Talk: 12:50 – 1:05 PM <i>Billion to One</i> RhD: Advancements in NIPT for RhD and RBC Antigens Paul Hudson, MS 1:05 – 1:30 pm <i>Boston Children’s Hospital</i> Taming the Raging River: Fetoscopic Laser Photocoagulation in Management of Type II Vasa Previa (FLUMEN Study) Alireza Shamshirsaz, MD 1:30 – 1:55 PM <i>Natera</i> Beyond Aneuploidies: Balancing Innovation with Appropriate Care for Single Gene Disorders Sheetal Parmar, MS, CGC		
Session 18: Memorial Session Maria New, MD - Disorders of Sexual Development (DSDs) Moderator: Elena Ashkinadze, MS Lecture Hall C	Session 19: Fetal ECHO Moderator: Dennis Wood, RDMS Shubhika Strivastava, MD Lecture Hall D	Session 20: Maternal Obesity Symposium Moderators: E Albert Reece, MD, PhD Ossie Geifman-Holtzman, MD
2:00-2:25 PM The Role of cfDNA in Diagnosing DSDs Anthony Gregg, MD	2:00-2:25 PM Pearls and Wisdom in Basic Principles in Fetal ECHO Dennis Wood, RDCS	2:00 - 2:15 PM Welcome and Introduction- Tribute to Menachem Miodovnik, MD E. Albert Reece, MD, PhD
2:25-3:30 PM Diagnosis and Management of Disorders of Sexual Differentiation - Learning from Our Cases Anthony Gregg, MD Elena Ashkinadze, MS, LGC Ahmed Khattab, MD	2:25-2:50 PM Anatomy of the Fetal Heart: Normal and Abnormal Structures Jill Savla, MD	2:15 - 2:40 PM Overview of The Obesity Epidemic Christopher Weber, MD
	2:50-3:15 PM The Origins of Congenital Heart Disease: Genetics for the Fetal ECHO Imager Shannon Nees, MD	2:40 - 3:10 PM New Innovations in Managing Obesity and Type 1 and 2 Diabetes E. Albert Reece, MD, PhD
Session 18-B 3:30-4:10 PM Break & Poster Session SPONSORED TALK 3:35- 4:00 PM <i>LabCorp</i> <i>Prenatal Cell-Free DNA Enhancements and Insights: 14 Years and 4 million Specimens Later</i> Vivian Weinblatt, MS, CGC Lecture Hall C	3:15-3:40 PM Ebstein’s Anomaly and Tricuspid Valve Dysplasia Christine Falkensammer, MD	3:10 - 3:35 PM Safety Considerations for Pharmaceutical Treatment of Obesity in Women Before and During Pregnancy Carolyn Cesta, PhD
	3:40-3:55 PM Break & Poster Session	3:35-3:45 PM Break & Poster Session

Session 21: Cell Free DNA Screening (cfDNA) Moderator: Elena Ashkinadze, MS Lecture Hall C		Session 22: Fetal ECHO (Continued) Moderator: Dennis Wood, RDMS Shubhika Strivastava, MD Lecture Hall D		Session 20A: Maternal Obesity Symposium (Continued) Moderators: E Albert Reece, MD, PhD Ossie Geifman-Holtzman, MD Lecture Hall E	
4:10-4:35 PM Overview of Prenatal Genomic Testing Lorraine Dugoff, MD		3:55-4:20 PM Truncus Arteriosus Shannon Nees, MD		3:45 - 4:10 PM The relationship between obesity and female (in)fertility Samantha Schon, MD	
4:35-5:10 PM Challenges of cfDNA for Sex Chromosomes Screening Louise Wilkins Haug, MD, PhD		4:20-4:40 PM Principles of Performance of the Fetal Echocardiogram Zhiyun Tian, MD, RDCS		4:10 - 4:35 PM Beyond the Numbers: Labor & Delivery Strategies for Patients with Obesity Kimberley Sampson–Paine, MD	
5:10-5:35 PM Impact of Increased BMI/Fibroids on cfDNA Screening Daniel Rolnik, MD		4:40-5:10 PM Fetal Cardiac Imaging in the First Trimester Shifa Turan, MD, RDMS		4:35 - 5:00 PM Modification of Cardiometabolic Risk through Weight Reduction after a GDM Pregnancy Ellen W. Seely, MD	
5:35-6:00 PM New Developments in cfDNA Screening Lorraine Dugoff, MD		5:10-5:40 PM Fetal RASopathies: Key to Prenatal Diagnosis Elena Sinkovskaya, MD		5:00 - 5:25 PM What are the long-term effects of obesity and hyperglycemia during pregnancy for the child? Patrick Catalano, MD	
6:00-6:30 PM Benefits and Limitations of Genome-Wide cfDNA Screening Daniel Rolnik, MD		5:40-6:05 PM Doppler Tools in Understanding the Fetal Cardiovascular System Shifa Turan, MD, RDMS		5:25 - 5:50 PM Weight of Risk: Preeclampsia, Preterm Birth, IUGR, and IUFD in Obesity Kimberley Sampson–Paine, MD	
		6:05-6:30 PM Ductus Arteriosus in Normal and Abnormal Conditions: Small Vessel, Big Impact Elena Sinkovskaya, MD		5:50 - 6:15 PM Obesity-Associated type 2 Diabetes Prevention and the applied Blue Zone model E. Albert Reece, MD, PhD	
				6:15 - 6:30 PM Q&A Panel Discussion Faculty	
Session 23: Health Care Politics Moderator: Ossie Geifman-Holtzman, MD Lecture Hall C			Session 24: Maternal Opioid Use Disorder (OUD) Moderator: Yali Xiong, MD, PhD Lecture Hall E		
6:30–7:00 PM Mortality of Politics Mark Evans, MD			6:30-7:00 PM Opioid Use Disorder in Pregnancy Kay Roussos-Ross, MD		
			7:00-9:00 PM Maternal Opioid Exposure Across the Perinatal Continuum: Pregnancy, Labor, Delivery, and Postpartum Best Practice for Perinatal Substance Use Disorder The Philadelphia Health Department (Online access will be provided for all registered attendees to view at their discretion)		

Saturday, June 7, 2025

7:00-7:40 AM Breakfast			
Session 25: Pregnancy Loss Moderator: Ossie Geifman-Holtzman, MD Lecture Hall C		Session 26: Fetal ECHO Moderators: Jack Rychik, MD Dennis Wood, RDMS Lecture Hall D	
7:40-7:45 AM	Moderator Welcome	7:40-7:45 AM	Moderator Welcome
7:45-8:10 AM	Harnessing Pre-Pregnancy Data to Predict Pregnancy Health Aleksandar Rajkovic, MD, PhD	7:45-7:50 AM	Opening Remarks Jack Rychik, MD Dennis Wood, RDMS
8:10-8:35 AM	Genetic Testing in Pregnancy Loss Amy Breman, PhD	7:50-8:15 AM	Heterotaxy Syndrome Anita Szwest, MD & Dennis Wood, RDMS
8:35-9:00 AM	TRIOS: Exploring Genetic Causes of Pregnancy Loss Aleksandar Rajkovic, MD, PhD	8:15-8:40 AM	Transposition of the great arteries Jack Rychik, MD
9:00-9:25 AM	Utility of Autopsy in Those with Congenital Anomalies Erica Schindlewolf, CGC	8:40-9:05 AM	Systemic and Pulmonary Venous Anomalies Mary Donofrio, MD
9:25 -9:30 AM Break		9:05-9:30 AM	Coarctation of the Aorta and Arch Anomalies Shubhika Srivastava, MD
Session 27: Mosaicism Across the Reproductive Spectrum Moderator: Natalia Wisniewski, MS, LGC Lecture Hall C			
9:30-9:55 AM	Embryo Mosaicism in PGT-A Svetlana Rechitsky, PhD	9:30-9:55 AM	Prenatal diagnosis of vascular rings and slings Elena Sinkovskaya, MD
9:55-10:25 AM	Mosaicism in Prenatal Diagnosis Amy Breman, PhD	9:55-10:25 AM	Tetralogy of Fallot and Double-Outlet Right Ventricle Mary Donofrio, MD
10:25-10:45 AM	Pitfalls in PGT-M that Affect Accuracy Svetlana Rechitsky, PhD	10:25-10:45 AM	The MFM Role in Changing the Outcomes for Fetal Cardiac Anomalies Louise Wilkins Haug, MD, PhD
		10:45-10:50 AM	Poster Oral Presentation Incorporating Fetal Echocardiography into Routine Structural Surveys Naphtali Justman, MD, MPH
10:45-11:00 AM Break- Hall C		10:50-11:05 AM Break- Halls D	
Session 28: Innovations and Back to Basics Moderator: Elena Ashkinadze, MS, LGC Lecture Hall C		Session 29: FETAL ECHO (Continued) Moderators: Jack Rychik, MD Dennis Wood, RDMS Lecture Hall D	
11:00-11:25 PM	Translocations in Prenatal Diagnosis Yavuz Bayram, MD	11:05-11:35 AM	Systematic Approach to the 3 Vessel and Trachea View Elena Sinkovskaya, MD
11:25-11:50 PM	Robertsonian Translocations Peter Benn, PhD	11:35-12:05 PM	Hypoplastic Left Heart Syndrome Jack Rychik, MD
11:50-11:55 AM			

Session 30: New Innovations in cfDNA Screening for Single Gene Disorders Moderator: Elena Ashkinadze, MS, LGC Lecture Hall C		12:05-12:30 PM	Hypoplastic Right Heart Anomalies Shubhika Srivastava, MD
11:55-12:10 PM	NIPT for Single Gene Disorders Igna Van Den Veyver, MD	12:30-1:00 PM	Clinical Application of Automation and AI Algorithms in Fetal Cardiac Imaging Elena Sinkovskaya, MD
12:10 -12:35 PM	New Innovations in NIPT for Single Gene Disorders- Industry Sponsored Presentations Myriad- FirstGene: A Combined Prenatal Screen with Reliability Boosted by Fetal Fraction Amplification and Efficient Simultaneous Maternal-Fetal Assessment Rachel Allen, MS, CGC		
12:35-1:00 PM	Fulgent- Concurrent Prenatal Cell-Free DNA Screening for Aneuploidies, Microdeletions, and Dominant Monogenic Conditions Jinglan Zhang, PhD, FACMG		
1:00-2:30 PM Lunch Session C – Sponsored Talks 1:30-1:45 PM <i>Billion to One</i> Single Gene: Fetal Risk Assessment for Recessive Disorders via a Unique Molecular Counting Technology Paul Hudson, MS 1:45-2:10 PM <i>IdentifAI</i> Leveraging machine-learning and Bayesian approaches for prenatal detection of monogenic disorders Noa Liscovitch-Brauer, PhD 2:10-2:25 PM <i>Natera</i> EXPANDING to sgNIPT Vivienne Souter, MD, MPH			
Session 31: cfDNA Screening for single Gene Disorder (continued) Lecture Hall C		Session 32: FETAL ECHO (Continued) Moderator: Jack Rychik, MD Lecture Hall D	
2:30-3:20 PM Panel Discussion on Novel Technologies- Merging Industry and Academic Faculty Igna Van den Veyver, MD, Anthony Gregg, MD, Peter Benn, PhD, Lorraine Dugoff, MD, Louise Wilkins Haug, MD, PhD. Amy Breman, PhD, Aleksandar Rajkovic, MD, PhD, Natalia Wisniewski, MS, LGC, Elena Ashkinadze, LGC		2:30-2:55 PM Differential Diagnosis of Fetal Bradyarrhythmias Elena Sinkovskaya, MD	
		2:55-3:20 PM Assessing fetal Arrhythmias: Too Fast Anita Szwast, MD	
3:20-3:30 PM Break		3:20-3:30 PM Break	
		Session 33: Hands On Fetal Ultrasound - Fetal Anatomy - Fetal ECHO Lecture Hall A	
		2:30-5:30 PM Hands-On Session Dennis Wood, RDMS & Faculty	

Session 34: Advances in the Emerging Field of Cell Based NIPT Moderator: Amy Breman, PhD Lecture Hall C	Session 35: FETAL ECHO (Continued) Moderator: Jack Rychik, MD Lecture Hall D
3:30-3:55 PM Cell-Based Non-Invasive Prenatal Testing Francesca Grati, PhD	3:30-3:55 PM The Placenta in Congenital Heart Disease Jack Rychik, MD
3:55-4:20 PM Clinical interpretation of cbNIPT Ida Vogel, MD	3:55-4:20 PM Septal Defects of the Heart Dennis Wood, RDMS
Interesting Cases /Abstracts Presentations Moderator: Elena Ashkinadze, MS	4:20-4:40 PM Tumors, Diverticula and Aneurysms of the Fetal Heart Christine Falkensammer, MD
4:20- 4:30 PM Cytogenetic Analysis of Spontaneous Abortions; Importance of Incorporation and Routine Utilization of Microarray Analysis in an Analysis of Over 91,000 Pregnancy Losses Stuart Schwartz, PhD, FACMG 4:30-4:40 PM Reproductive Autonomy vs. Structural Harm: Ethical Implications of Prenatal Gender Disclosure in Gender-Biased Societies Saleha Iftikhar 4:40-4:50 PM Importance of Familial Testing Following Identification of an X-linked Carrier via Pan-ethnic Screening: A Case Report Zala Čok 4:50 – 5:00 PM Evaluating the Role of Preconception Pelvic Ultrasound in Asymptomatic Women: A Systematic Review Zohra Ali-Khan Catts, MS 5:00 – 5:10 PM An Overview of the Impact of Both Chromosome and Microarray Analysis on Two Common Prenatally Detected Ultrasound Anomalies: Cystic Hygroma and Nuchal Translucency Stuart Schwartz, PhD, FACMG	4:40 – 5:00 PM School Performance in Children Post Cardiac Repair Amanda Shillingford, MD