



APPROVED

ADVANCED PERSPECTIVES IN FETAL HEART AND FETAL CENTRAL NERVOUS SYSTEM ULTRASONOGRAPHY COURSE İSTANBUL 3-4 May 2025



COURSE DIRECTORS



Prof. Dr. Özgür DEREN

ISUOG Ambassador to Asia and Türkiye
Hacettepe University Faculty of Medicine



Prof. Dr. Recep HAS

ISUOG Ambassador to Asia and Türkiye
İstanbul University Çapa Faculty of Medicine

INTERNATIONAL INVITED SPEAKERS



Prof. Dr. Dario PALADINI

Gaslini Institute, Genoa, Italy
ISUOG International Faculty Member



Prof. Dr. Julene CARVALHO

Royal Brompton & St George's Hospitals,
St George's University of London, UK
ISUOG Fetal Heart Special
Interest Group Chair



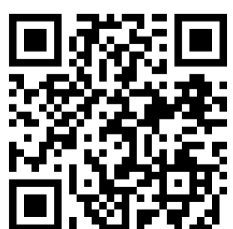
Prof. Dr. Nikos VRACHNIS

Athens, Greece
ISUOG Education Committee Accreditation
and Certification Subcommittee Chair



Dr. Gihad CHALOUHI

Hopital Necker Enfants-Malades,
Paris, France
ISUOG Education Committee
BT Sub-Committee Chair



<https://fetalbrainheart2025.com>

İstanbul Olimpiyatevi

Turgut Atakol Konferans Salonu

Zuhuratbaba Mah. Dr. Remzi Kazancıgil Cad. No: 34/1
Bakırköy-İSTANBUL





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Course Directors

Prof Dr Özgür DEREN, Prof Dr Recep HAS

Course Venue

İstanbul TMOK Olimpiyatevi Turgut Atakol Conference Hall, Ataköy, Bakırköy, İstanbul

Day 1, 3rd of May, 2025, Saturday, İSTANBUL

07:30-08:20

Registration

08:20-08:30

ISUOG and Membership Benefits, **Dr Gihad CHALOUHI**

08:30-08:40

Course Opening, General Overview of the Course,
Prof Dr Özgür DEREN, Prof Dr Recep HAS

SESSION 1:

ADVANCED FETAL ECHOCARDIOGRAPHY

Chairs: Prof.Dr. Özgür DEREN, Prof.Dr. Recep HAS

08:40-08:55

1.1. Fetal Echocardiography: Indications and Content

Prof.Dr. Rıza MADAZLI

Fetal Echocardiography Indications

Epidemiology of Congenital Heart Disease

08:55- 09:15

1.2. Techniques/Modes to Perform a Fetal Echocardiography

Dr Gihad CHALOUHI

Grayscale in Fetal Cardiac Imaging

Color Doppler in Fetal Cardiac Imaging

Spectral Doppler in Fetal Cardiac Imaging

M-Mode in Fetal Cardiac Imaging

Three- and Four-Dimensional Ultrasound in Fetal Cardiac Imaging

09:15-09:45

1.3. Fetal Cardiac Morphometry, Rhythm and Function

Prof.Dr. Julene CARVALHO

Cardiac Anatomy

Biometry in Fetal Cardiac Imaging

ISUOG Guidelines for Fetal Cardiac Imaging

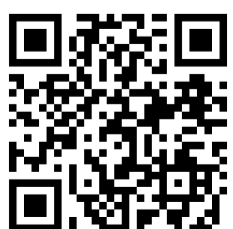
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Fetal Situs

The Cardiac Chambers

The Great Vessels

The Three-Vessel-Trachea View

The Venous System

Fetal Cardiac Rhythm

Fetal Cardiac Function

09:45-09:55

Discussion

09:55-10:10

COFFEE BREAK

SESSION 2:

**SEPTAL DEFECTS, LEFT AND RIGHT CONGENITAL HEART
DISEASES**

**Chairs: Prof.Dr. Dilek ŞAHİN, Prof.Dr. Gökhan YILDIRIM,
Assoc. Prof. İbrahim Polat**

10:10-10:30

2.1. Septal Defects

Dr Yasemin Doğan

Atrial Septal Defects

Ventricular Septal Defects

Atrioventricular Septal Defects

Double Inlet Single Ventricle

10:30-10:40

2.2. Hypoplastic Left Heart Syndrome,

Prof.Dr. İbrahim Kalelioğlu

10:40-10:50

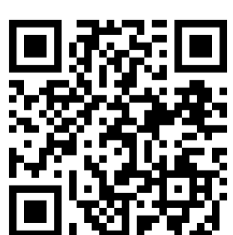
2.3. Bicuspid Aortic Valve, Aortic Stenosis and Critical Aortic Stenosis,

Prof.Dr. Oluş APİ

10:50-11:00

2.4. Coarctation of the Aorta and Interrupted Aortic Arch

Assoc. Prof. Halil Korkut DAĞLAR



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11:00-11:10 2.5. Tricuspid Regurgitation, Tricuspid Atresia, Ebstein's Anomaly and Tricuspid Dysplasia

Prof.Dr. Cihan İNAN

11:10-11:20 2.6. Pulmonary Stenosis and Pulmonary Atresia with Intact Ventricular Septum

Assoc. Prof.Dr. Mert TURĞAL

11:20-11:30 Discussion

11:30-11:45 COFFEE BREAK

SESSION 3:

CONOTRUNCAL ANOMALIES

Chairs: Prof Dr İnanç MENDİLCİOĞLU, Prof Dr Özlem PATA

11:45-12:05 3.1. Fallot Complex

Prof Dr Cem Yaşar SANHAL

Tetralogy of Fallot

Absent Pulmonary Valve Syndrome

Pulmonary Atresia with Ventricular Septal Defect

12:05-12:20 3.2. Transposition of Great Arteries

Prof.Dr. Recep HAS

D-Transposition of Great Arteries (D-TGA)

Corrected Transposition of the Great Arteries (cTGA, L-TGA)

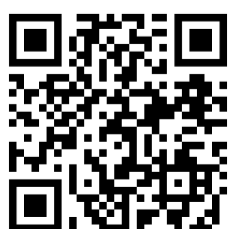
12:20-12:35 3.3. Double Outlet Right Ventricle

Assoc. Prof. Tuğba Saraç SİVRİKOZ

12:35-12:45 3.4. Common Arterial Trunk (Truncus Arteriosus)

Prof Dr Ebru ÇELİK

12:45-12:55 Discussion



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SESSION 4:

12:55-13:25

LIVE ULTRASONOGRAPHY SESSION-1

Live Advanced Fetal Echocardiography

By Prof.Dr. Julene CARVALHO

13:25-14:00

LUNCH BREAK

SESSION 5:

ADVANCED FETAL NEUROSONOGRAPHY – 1

Chairs: Prof Dr Sermet SAĞOL, Prof Dr Ragıp Atakan AL

14:00-14:20

5.1. Fetal Neurosonography: Indications and Content

Prof Dr Nikos VRACHNIS

CNS anatomy and development

Genetic Aspects of CNS anomalies

ISUOG Guidelines on sonographic examination of the Fetal CNS

14:20-14:45

Satellite Symposium

14:45-15:00

5.2. First Trimester Detectable Anomalies, Dr Gihad CHALOUHI

15:00-15:10

5.3. Ventriculomegaly

Prof Dr Atıl YÜKSEL

15:10-15:30

5.4. Midline Anomalies

Prof Dr Dario PALADINI

15:30-16:10

5.5. Posterior Fossa and Cerebellar Anomalies

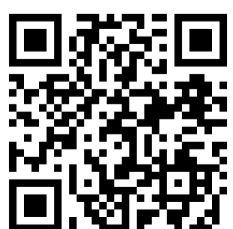
Prof Dr Dario PALADINI

16:10-16:20

Discussion

16:20-16:35

COFFEE BREAK



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SESSION 6:

LIVE ULTRASONOGRAPHY SESSION-2

16:35-17:00

Live Advanced Fetal Neurosonography

Prof.Dr. Dario PALADINI

17:00-17:30

KEYNOTE LECTURE

How to consult the family in case of a Fetal Cardiac Anomaly?

Prof.Dr. Julene CARVALHO

17:30-18:00

KEYNOTE LECTURE

How to consult the family in case of a Fetal CNS Anomaly?

Prof.Dr. Dario PALADINI

18:00

END OF THEORETICAL PART OF DAY 1

18:00-19:00

HANDS-ON PRACTICAL SESSIONS BY GROUPS

19:15

SOCIAL EVENT



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Day 2, 4th of May, 2025, Sunday, İSTANBUL

08:30-08:40

Opening of Day 2

SESSION 7:

ADVANCED FETAL NEUROSONOGRAPHY – 2

Chairs: Prof Dr Zeki ŞAHİNOĞLU, Prof Dr Banu DANE

08:40-08:50

7.1. Vascular Anomalies of CNS, **Assoc. Prof.Dr. Emine AYDIN**

08:50-09:00

7.2. Intracranial Cystic Anomalies **Prof.Dr. Cem BATUKAN**

09:00-09:10

7.3. Malformation of Cortical Development,
Prof.Dr. Aytül Çorbacıoğlu ESMER

09:10-09:20

7.4. Neural Tube Defects Diagnosis and In-Utero Repair Patient
Selection, **Assoc. Prof.Dr. Erdem FADİLOĞLU**

09:20-09:30

7.5. Neural Tube Defects, Repair, Techniques and Outcomes,
Prof.Dr. Esra Esim BÜYÜKBAYRAK

09:30-09:40

7.6. Sacrococcygeal Teratoma, **Prof.Dr. Aytaç YÜKSEL**

09:40-09:50

7.7. Hypoxic-ischemic Lesions of CNS, **Prof.Dr. Derya EROĞLU**

09:50-10:00

7.8. Cerebral Hemorrhage, **Assoc. Prof.Dr. Hakan ERENEL**

10:00-10:10

7.9. Infections, **Assoc. Prof.Dr. Ayşegül ÖZEL**

10:10-10:20

7.10. MRI Indications in CNS anomalies, **Prof Dr Oya DEMİRCİ**

10:20-10:35

Discussion

10:35-10:50

COFFEE BREAK

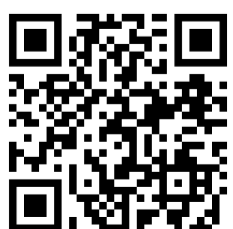
SESSION 8:

VASCULAR/VENOUS SYSTEM ANOMALIES

Chairs: Prof.Dr. Cenk SAYIN, Prof Dr Alev AYDIN

10:50-11:05

8.1. Aortic Arch Anomalies,
Dr Murat ÇAĞAN



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Right Aortic Arch

Double Aortic Arch

Aberrant Subclavian Artery

11:05-11:30 8.2. Systemic and Pulmonary Venous Return Anomalies

Prof Dr HALİL ASLAN

Persistent Left Superior Vena Cava

Interrupted Inferior Vena Cava

Persistent Right Umbilical Vein

Ductus Venosus Agenesis

Anomalous Pulmonary Venous Return

11:30-11:40

Discussion

SESSION 9:

Fetal Arrhythmias

Chairs: Prof Dr Rukiye Eker ÖMEROĞLU,

Prof Dr Fehmi YAZICIOĞLU

11:40-11:55 9.1. Fetal Rhythm Assessment and Irregular Cardiac Rhythms

Assoc. Prof.Dr. Bilge Çetinkaya DEMİR

Classification of fetal arrhythmias

Premature Atrial/Ventricular Beats

11:55-12:10 9.2. Fetal Bradyarrhythmias, **Prof Dr Umut Dilek**

12:10-12:25 9.3. Fetal Tachyarrhythmias, **Assoc. Prof.Dr. Deniz Kanber AÇAR**

12:25-12:35

Discussion

SESSION 10:

FETAL CARDIAC THERAPY

Chairs: Prof.Dr. Melih Atahan GÜVEN, Prof.Dr. Mert KAZANDI

12:35-13:00

Fetal Cardiac Interventions

Prof Dr Özgür DEREN

Fetal aortic valvuloplasty

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Fetal pulmonary valvuloplasty

Fetal atrial septostomy

13:00-13:10

Discussion

13:10-14:10

SATELLITE SYMPOSIUM, LUNCH BREAK

SESSION 11:

COMPLEX CHDs

**Chairs: Prof.Dr. Gülseren YÜCESOY,
Assoc. Prof.Dr. Mehmet ULUDOĞAN**

14:10-14:30

11.1. Genetic Aspects of Fetal Heart and CNS Anomalies,
Dr. Tuğba KALAYCI

14:30-14:40

11.2. Situs Anomalies, Heterotaxy, **Prof Dr Melih Atahan GÜVEN**

14:40-14:50

11.3. Fetal Cardiac Tumors, **Assoc. Prof.Dr. Mucize Erinç Özdemir**

14:50-15:00

11.4. Cardiomyopathies and Other Myocardial Abnormalities
(Aneurysm/Diverticulum), **Assoc. Prof.Dr. Ebru Alıcı DAVUTOĞLU**

15:00-15:15

11.5. Rare Cardiac Anomalies

Assoc. Prof.Dr. Atakan TANAÇAN

Ectopia Cordis

Ductus Arteriosus Abnormalities

Pericardial Effusion

Cor Triatriatum

Aortopulmonary Window

Pulmonary Arterial Sling

Right Pulmonary Artery to Left Atrial Fistula

Arterial Tortuosity Syndrome

15:15-15:30

Discussion, Closure of The Theoretical Part of the Course

15:30-17:30

HANDS-ON PRACTICAL SESSIONS BY GROUPS



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