

# Fetal Cardiology – the unique field of cooperation between cardiologists, neonatologists and obstetricians

Warsaw, Poland, 29.11. – 1.12.2018

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**Venue:** Hotel Radisson Blu Centrum, ul. Grzybowska 24, Warsaw, Poland



**Organizer:** RECOVER Foundation / e-mail: [recover@recover.org.pl](mailto:recover@recover.org.pl)



**Program:**

## **THURSDAY 29.11.2018**

Session 1 Epidemiology and genetics  
Session 2 Normal fetal circulation from the 1<sup>st</sup> to 3<sup>d</sup> trimester  
Session 3 Cooperation with obstetricians  
Session 4 Vascular rings and septal defects

## **FRIDAY 30.11.2018**

Session 5 Cono-truncal defects – the challenge for fetal cardiologists  
Session 6 Left heart lesions  
Session 7 Right heart lesions  
Session 8 Univentricular heart and heterotaxy syndromes

## **SATURDAY 1.12.2018**

Session 9 Arrhythmias and valve problems  
Session 10 Unique problems in fetal cardiology  
Session 11 Counselling

## THURSDAY 29.11.2018

9.00 - 9.15 Welcome

### **Session 1 Epidemiology and genetics**

9.15 - 9.45 Epidemiology of pre- and postnatal congenital heart defects, difference between pre- and postnatal cardiology, difference between countries.

9.45 - 10.30 Genetics in fetal cardiology - what is important, what is new?

10.30 - 10.40 Abstracts session.

10.40 - 10.50 Safety of prenatal ultrasound, what should be known while performing fetal scanning.

10.50 - 11.00 *Live scanning*

### **11.00 - 11.15 Coffee**

### **Session 2 Normal fetal circulation from the 1<sup>st</sup> to 3<sup>d</sup> trimester**

11.15 - 11.40 Embryology and morphology in different stage of normal cardiac development.

11.40 - 12.00 First trimester ultrasonography and echocardiography, the importance of increased nuchal translucency in fetal echocardiography.

12.00 - 12.25 Evaluation of the normal fetus, normal fetal heart, usefulness of STIC – 4D - morphology and echocardiography of the normal fetus.

12.25 - 12.45 New methods the evaluation of fetal and neonatal cardiac function – its usefulness in prediction of neonatal condition.

12.45 - 13.00 Transitional circulation – what each obstetrician, neonatologist and cardiologist should be aware of.

13.00 - 13.15 *Live scanning*

### **13.15 - 14.15 Lunch**

### **Session 3 Cooperation with obstetricians**

14.15 - 14.35 Physiology and pathophysiology of feto – placental circulation.

14.35 - 15.00 Fetal heart failure – causes, evaluation, treatment.

15.00 - 15.15 Abstracts session.

15.15 - 15.45 Cardiac problems in extracardiac anomalies – important new issue for pediatric cardiologist.

15.45 - 16.00 *Live scanning*

### **16.00 - 16.15 Coffee**

### **Session 4 Vascular rings and septal defects**

16.15 - 16.30 Vascular rings: embryology and morphology.

16.30 - 16.45 Vascular rings: fetal echocardiography.

16.45 - 17.00 Vascular ring: postnatal diagnosis and treatment.

17.00 - 17.15 *Live scanning*

### **17.15 - 17.30 Coffee**

17.30 - 17.45 Septal defects: VSD, AVSD - embryology and morphology

17.45 - 18.00 Septal defects: VSD, AVSD – fetal echocardiography.

18.00 - 18.15 Septal defects – important issues in echocardiography in the neonate.

18.15 - 18.45 Abstracts session.

18.45 - 19.00 *Live scanning*

## FRIDAY 30.11.2018

### **Session 5 Cono-truncal defects – the challenge for fetal cardiologists**

- 9.00 - 9.15 Cono – truncal defects 1: TOF, TAC – embryology and morphology.  
9.15 - 9.30 Cono – truncal defects 1: TOF, TAC – fetal and neonatal echocardiography, prediction of the neonatal condition.  
9.30 - 9.40 *Live scanning*  
9.40 - 9.55 Cono – truncal defects 2: DORV- embryology and morphology.  
9.55 - 10.15 Cono – truncal defects 2: DORV- fetal and neonatal echocardiography, important features for decisions.  
10.15 - 10.30 Cono – truncal defects 3: TGA, ITGA – embryology and morphology.  
10.30 - 10.50 Cono – truncal defects 3: TGA, ITGA – fetal and neonatal echocardiography, important signs in decision making.  
10.50 - 11.00 Abstracts session.  
11.00 - 11.15 *Live scanning*

### **11.15 - 11.30 Coffee**

### **Session 6 Left heart lesions**

- 11.30 - 11.45 Aortic arch anomalies: CoA, IAA embryology and morphology.  
11.45 - 12.00 Aortic arch anomalies: CoA, IAA fetal echocardiography in decisions, neonatal diagnosis.  
12.00 - 12.15 *Live scanning*  
12.15 - 12.45 Left heart lesions: SA, HLHS – embryology and morphology.  
12.45 - 13.00 Left heart lesions: SA, HLHS – fetal and neonatal echocardiography, important signs.  
13.00 - 13.15 Fetal and neonatal interventions in left heart lesions.  
13.15 - 13.30 Abstracts session.  
13.30 - 13.45 *Live scanning*

### **13.45 - 14.45 Lunch**

### **Session 7 Right heart lesions**

- 14.45 - 15.00 Right heart lesions: embryology and morphology (PS, AP&IVS).  
15.00 - 15.15 PS and AP&IVS: fetal and neonatal echocardiography.  
15.15 - 15.30 Critical PS / AP&IVS: prenatal evolution and prenatal interventions.  
15.30 - 15.45 *Live scanning*  
15.45 - 16.00 Ebstein anomaly and dysplastic tricuspid valve: embryology and morphology.  
16.00 - 16.20 Ebstein anomaly and dysplastic tricuspid valve – fetal and neonatal echocardiography, how to predict neonatal condition and treatment options.  
16.20 - 16.30 *Live scanning*  
16.30 - 16.45 Abstracts session.

### **16.45 - 17.00 Coffee**

### **Session 8 Univentricular heart and heterotaxy syndromes**

- 17.00 - 17.15 Univentricular heart: what do we understand under this name – embryology and morphology.  
17.15 - 17.35 Univentricular heart (DILV, AT): fetal and neonatal echocardiography, prenatal evolution and decisions concerning treatment.  
17.35 - 17.45 *Live scanning*  
17.45 - 18.00 Heterotaxy syndromes: embryology and morphology.  
18.00 – 18.20 Heterotaxy syndromes: fetal and neonatal echocardiography, important issues for treatment decisions.  
18.20 - 18.30 *Live scanning*  
18.30 - 19.00 Abstracts session.

## **SATURDAY 1.12.2018**

### **Session 9 Arrhythmias and veins problems**

9.00 - 9.30 Fetal bradyarrhythmia, screening for channelopathies.

9.30 - 10.00 Fetal extrasystoles and tachyarrhythmia.

10.00 - 10.15 Abstracts session.

10.15 - 10.45 Abnormalities of feto – placental circulation, systemic veins and its implication for fetal and neonatal well-being.

10.45 - 11.15 Anomalous pulmonary venous drainage - commonly missing lesions in fetuses.

11.15 - 11.30 *Live scanning*

**11.30 - 11.45 Coffee**

### **Session 10 Unique problems in fetal cardiology**

11.45 - 12.05 Prenatal restriction of the arterial duct and foramen ovale.

12.05 - 12.25 Fetal cardiomyopathy.

12.25 - 12.55 Fetal echocardiography in multiply pregnancy.

12.55 - 13.15 Fetal heart tumors.

13.15 - 13:30 Abstracts session.

**13.30 - 14.30 Lunch**

### **Session 11 Counselling**

14.30 - 14.45 *Live scanning*

14.45 - 15.15 Counseling as the most important part of prenatal cardiology, the concept of perinatal hospice.

15.15 - 15.30 Closing remarks.