



Almazov National Medical Research Centre

INTERNATIONAL SYMPOSIUM ON
THE FETAL AND NEONATAL HEART: IMPLICATIONS FOR ADULT LIFE

PRESIDENTS: TATIANA PERVUNINA, EDUARD KOMLICHENKO, GIAN CARLO DI RENZO

APRIL 12-14, 2021

FROM ALMAZOV NATIONAL MEDICAL RESEARCH CENTRE
ST. PETERSBURG, RUSSIA

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ALMAZOV NATIONAL
MEDICAL RESEARCH CENTRE
St. Petersburg, Russia

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CENTRE OF PERINATAL AND
REPRODUCTIVE MEDICINE
University of Perugia, Italy



with:



INTERNATIONAL FOUNDATION ON
MATERNAL, PERICONCEPTIONAL, PERINATAL
AND NEONATAL MEDICINE (FIMPP)



THE ASSOCIATION FOR
EUROPEAN PEDIATRIC AND
CONGENITAL CARDIOLOGY

MONDAY, APRIL 12

- 08.30 – 09.00 **Welcoming remarks**
E.V. Shlyakhto, I.A. Kovalev, E.V. Komlichenko, T.M. Pervunina, Gian Carlo Di Renzo
- 09.00 – 09.30 OPENING LECTURE: 10 common fetal cardiac anomalies
Rabih Chaoui (Germany)
- 09.30 – 11.20 SESSION 1 – CONGENITAL HEART DISEASES: FROM GENETICS TO FUNCTION**
Chair: Anna Kostareva
- 09.30 – 10.05 Christoph Berg (Germany). Genetics and cardiac defects
- 10.05 – 10.35 D.V. Voronin (St. Petersburg). CHD ultrasound prenatal diagnosis in various syndromes
- 10.35 – 10.50 A.A. Kostareva (St. Petersburg). Bart's Syndrome
- 10.50 – 11.05 D.N. Liaschenko (Orenburg). Normal anatomy and topography of fetal heart at 16-22 weeks of development
- 11.05 – 11.20 Q & A**
- 11.20 – 12.30 SESSION 2 – FETAL CARDIAC REMODELING AND DYSFUNCTION IN PREGNANCY COMPLICATIONS**
Chair: Valentina Tsibizova
- 11.20 – 11.50 Giuseppe Rizzo (Italy). Fetal cardiac remodeling and dysfunction in pregnancy complications: FGR, maternal diabetes and IVF
- 11.50 – 12.05 V.I. Tsibizova (St. Petersburg). Fetal diastolic function
- 12.05 – 12.20 K.V. Kostyukov (Moscow). Cardiovascular system in fetuses with FFTS
- 12.20 – 12.30 Q & A**
- 12.30 – 13.00 BREAK**
- 13.00 – 14.30 SESSION 3 – FETAL ECHOCARDIOGRAPHY**
Chair: Natalia Kosovtsova
- 13.00 – 13.30 Gregory DeVore (USA). Speckle tracking of the fetal heart from A to Z
- 13.30 – 13.45 O.A. Samsonova (Moscow). Differential diagnosis of rare fetal CHD in clinical cases
- 13.45 – 14.15 N.V. Kosovtsova (Ekaterinburg). Ultrasound protocol for monochorionic twins. Assessment of twins' hemodynamic disorders
- 14.15 – 14.30 I.I. Averkin, E.V. Grekhov, A.K. Lapytov (St. Petersburg). Pulmonary blood flow pattern in CHD
- 14.30 – 14.45 Q & A**

TUESDAY, APRIL 13

09.00 – 10.40	SESSION 4 – CARDIAC SURGERY: FUNCTIONAL CHANGES FROM PRENATAL TO POSTNATAL LIFE Chair: Ruben Movsesyan
09.00 – 09.30	Fatima Crispi (Spain). Cardiac surgery: functional changes from prenatal to postnatal life
09.30 – 09.50	R.R. Movsesyan (St. Petersburg). CHD surgery in newborns in the Russian Federation
09.50 – 10.10.	E.V. Grekhov (St. Petersburg) Surgical repair of coarctation of the aorta in neonates
10.10 – 10.40	Ruben Quintero (USA). The fetal heart: monitor and target in fetal therapy
10.40 – 11.10	Damien Bonnet (France). Fetal vs. neonatal surgery
11.10 – 11.25	I.A. Kozyrev (St. Petersburg). Tetralogy of Fallot – Is pulmonary valve preservation always possible?
11.25 – 11.40	Discussion / Q & A
11.40 – 13.45	SESSION 5 – FETAL NEONATAL DYSRHYTHMIA Chair: Elena Vasichkina
11.40 – 12.10	Laszlo Kornyei (Hungary). Fetal-neonatal dysrhythmia
12.10 – 12.40	E.L. Bokeria (Moscow). Fetal and neonatal paroxysmal tachycardia
12.40 – 13.00	K.A. Chuyeva (St. Petersburg) Congenital AV blocks. Diagnosis and therapy approaches
13.00 – 13.15	Q & A

WEDNESDAY, APRIL 14

09.00 – 11.10	SESSION 6 – HIGH RISK PREGNANCY AND PERINATAL OUTCOMES Chair: Victoria Bitsadze
09.00 – 09.40	Gian Carlo Di Renzo (Italy). Preterm birth: the paradigm of high risk pregnancy
09.40 – 10.00	N.V. Artyuk (Kemerovo). Maternal mortality in Siberia during the pandemic
10.00 – 10.20	V.O. Bitsadze, A.D. Makatsariya, D.H. Khizroeva (Moscow). COVID-19, hemostatic disorders and pregnancy
10.20 – 10.40	D.V. Blinov (Moscow). New data on the nutritional status in the periconceptual period
10.40 – 11.00	E.Yu. Zakharova (Moscow). Challenges in diagnosing rare diseases in the Russian Federation. Prospects for the introduction of expanded newborn screening
11.00 – 11.10	Discussion / Q & A
11.10 – 13.20	SESSION 7 – LONG-TERM FOLLOW-UP OF CONGENITAL HEART DEFECTS (OPERATED OR NOT) Chair: Tatyana Vershinina
11.10 – 11.40	Katarina Hanseus (Sweden). Long term outcome in CHD
11.40 – 12.00	T.L. Vershinina (St. Petersburg). Monitoring and transfer to adult clinical chain
12.00 – 12.20	P.A. Fedotov, T.M. Pervunina (St. Petersburg). Heart transplantation in children and adolescents: the case of Almazov Centre
12.20 – 12.40	E.S. Vasichkina, S.G. Fetisova (St. Petersburg). Heart rhythm disorders as a marker of the early Emery-Dreyfus myodystrophy
12.40 – 13.00	T.S Kovalchuk (St. Petersburg). Long-term heart rhythm disorders in children after surgery for congenital heart defects
13.00 – 13.20	Discussion / Q & A

SYMPOSIUM CLOSURE