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FETAL neurosonography

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09:00 Welcome and overview of the day Ritsuko K. Pooh

SESSION 1. Malformations of brain development: commissures, midbrain and hindbrain (Chairs: Pooh, Arechvo)

09:15 The developing brain between the first and second trimester Rabih Chaoui

09:40 Commissural anomalies: dysgenesis, hypoplasia and the limits of measurement Anastasija Arechvo

10:05 The genetic architecture of agenesis of the corpus callosum Liona Poon

10:30 The posterior fossa on MRI: when imaging changes diagnosis and management Gregor Kasprian

10:55 DISCUSSION.
When we name a malformation, what are we actually naming: an appearance, a mechanism, or a gene?

11:15 Coffee break

SESSION 2. The fetus as a patient: genomics, therapy and the ethics of individual care (Chairs: Pooh, Chervenak)

11:25 From phenotype to genotype: what the image tells us to look for Ritsuko K. Pooh

11:50 Fetal therapy and the individual fetus: what can be offered, and to whom Magdalena Sanz Cortes

12:15 What the fetal phenotype tells the geneticist – and what it cannot Tessa Homfray

12:40 The fetus as a patient: the ethics of counselling when the brain is involved Frank Chervenak

13:05 DISCUSSION.
What actually individualises care: the diagnosis, the phenotype, or the family?

13:25 Coffee break



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SESSION 3. Reading the lesion: haemorrhage, vascular injury and tumour (Chairs: Pooh, Bornstein)

13:35	Fetal intracranial haemorrhage	Shiri Shinar
14:00	Vascular insults and their sequelae: venous thrombosis, ischaemia and the brain afterwards	Eran Bornstein
14:25	Fetal intracranial tumours: haemorrhage, mass effect and the brain around them	Antonio Mendez
14:50	DISCUSSION. Can imaging alone separate tumour, haemorrhage and destruction?	
15:15	Coffee break	

SESSION 4. Are we all looking at the same lamination? (Chairs: Pooh, Kasprian)

15:25	How the human cortex is built: progenitors, migration and the emergence of layers	Tomasz J. Nowakowski
15:50	Cortical lamination on fetal MRI: what the signal represents	Gregor Kasprian
16:15	What pathology tells us about the developing cortex	Kyoko Itoh
16:30	Lamination and subplate on transvaginal neurosonography	Ritsuko K. Pooh
16:55	DISCUSSION. Are we all looking at the same lamination?	
17:15	Closing remarks	Ritsuko K. Pooh



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CONFERENCE CHAIR



Prof. Ritsuko Pooh

MD, PhD, MSc, LLB, Fetal Diagnostic Center,
Fetal Brain Center, CRIFM Prenatal Medical Clinic,
Osaka / Japan

COURSE SPEAKERS

A/Prof. Anastasija Arechvo

Associate Professor, Senior Lecturer
at King's College of London and Consultant
in Fetal Medicine with special interest
in Neurosonography at King's College
Hospital, London / UK

Dr. Eran Bornstein

MD, Division of Maternal-Fetal Medicine,
Department of Obstetrics and Gynecology,
Lenox Hill Hospital - Zucker School of
Medicine at Hofstra/Northwell, New York
New York / USA

Prof. Rabih Chaoui

Professor of Obstetrics & Gynecology,
Center of Prenatal Diagnosis and Human
Genetics, Berlin / Germany

Dr. Frank Chervenak

MD, System Chief, Ethics Northwell Health,
Kaufman Professor of Medical Ethics,
Professor of Obstetrics and Gynecology,
Associate Dean for International Medicine,
Zucker School of Medicine
at Hofstra/Northwell, New York / USA

Dr. Tessa Homfray

Medical Genetics Service, St George's
University Hospital and Royal Brompton
Hospital London, London / UK

Prof. Kyoko Itoh

M.D., Ph.D. Department of Diagnostic
Pathology Kyoto Chubu Medical Center
Nantan City, Kyoto / Japan

Prof. Gregor Kaspran

Department of Biomedical Imaging and
Image-guided Therapy of the Medical
University of Vienna, Vienna / Austria

Dr. Antonio Mendez

Dept of Pediatric Neurosurgery,
Mexican Institute of Social Security,
"La Raza" Medical Center,
Mexico City / Mexico

Prof. Tomasz J. Nowakowski

PhD, Dept of Psychiatry and Behavioral
Sciences, UCSF Weill Institute for
Neurosciences, University of California,
Quantitative Biosciences Institute,
University of California, San Francisco,
Dept of Anatomy, University of California,
Eli and Edythe Broad Center for Regeneration
Medicine and Stem Cell Research,
San Francisco / USA

Prof. Ritsuko Pooh

MD, PhD, MSc, LLB, Fetal Diagnostic Center,
Fetal Brain Center, CRIFM Prenatal Medical
Clinic, Osaka / Japan

Prof. Liona Poon

Professor, MD(Res), President elected of
ISUOG, Cert RCOG, Academic Subspecialist
in Maternal Fetal Medicine, Professor
at The Chinese University of Hong Kong,
Visiting Professor at King's College London
Hong-Kong / China

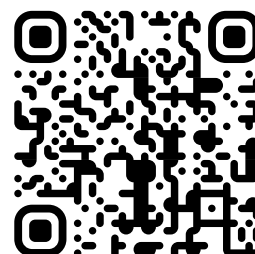
A/Prof. Magdalena Sanz Cortes

MD, PhD, Maternal Fetal Medicine
Specialist and Fetal Surgeon, Chief
of Fetal Surgery Division, Co-chair of Texas
Children's Hospital Fetal Center, Director
of International Women's Services, Director
of Neurosonology Clinic, Texas Children's
Hospital, Department of Obstetrics and
Gynecology, Baylor College of Medicine,
Texas / USA

Prof. Shiri Shinar

Associate Professor, Fetal Medicine Unit,
Mount Sinai Hospital, Department
of Obstetrics and Gynaecology University
of Toronto, Toronto / Canada

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