Ultrasound Meets Magnetic Resonance

April 22nd - 24th, 2015

Scientific Inspiring Committee
Yves Ville
Daniela Prayer

Congress Scientific Committee
Gustavo Malinger
Gianluca Pilu
Luca Ramenghi
Andrea Rossi

12.00 - 12.20  INTRODUCTION
Yves Ville - Luca Ramenghi

12.20 - 13.00  KEY NOTE LECTURE 1
DETAILED FETAL MRI EXAMINATION, AN ALTERNATIVE TO FETAL ULTRASOUND EXAMINATION?
Anne Elodie Millischer (Paris, France)

SESSION 1: ADVANCED MRI TECHNIQUE FOR THE FETAL BRAIN
Chairpersons: Gustavo Malinger (Tel Aviv, Israel) - Anne Elodie Millischer (Paris, France)

13.00 - 13.30  APPLICATION OF INTRAUTERINE DIFFUSION TENSOR IMAGING
Christian Mitter (Vienna)

13.30 - 13.50  Discussion

13.50 - 14.20  ABNORMALITIES OF FETAL GANGLIONIC EMINENCE
Andrea Righini (Milan, Italy)

14.20 - 14.50  QUANTITATIVE ASSESSMENT OF FETAL BRAIN DEVELOPMENT THOUGH VOLUMETRIC 3D MRI
Ellen Grant (Boston, USA)

14.50 - 15.10  Discussion

15.10 - 15.30  BREAK

SESSION 2: CONTROVERSIES IN DIGNOSIS OF THE POSTERIOR FOSSA MALFORMATIONS
Chairperson: Yves Ville (Paris, France)

15.30 - 16.00  BLAKE’S CYST. IN UTERO DIAGNOSIS AND PITFALLS
Dario Paladini (Genoa, Italy)

16.00 - 16.30  BLAKE’S CYST. OUTCOME
Andrea Righini (Milan, Italy)

16.30 - 17.00  VARIETY OF POSTERIOR FOSSA MALFORMATIONS AND OUTCOME
Laurent Guibaud (Lyon, France)

17.00 - 17.30  Discussion
17.30 - 19.30

**ORAL COMMUNICATIONS**

(024) A CASE OF VENTRICULOMEGALY
S. Goergen (1,2); G. Whitley 1; M. Fahey 3,4
1 Monash Imaging, Monash Health, Clayton, Australia; 2 Department of Surgery, Monash University, Clayton, Australia; 3 Paediatric Neuroradiology Unit, Monash Health, Clayton, Australia; 4 Department of Paediatrics, Monash University, Clayton, Australia. Stacy Goergen

(025) EMERGING CEREBELLAR PATHWAYS IN HUMANS FROM NEWBORNS TO YOUNG ADULTS USING HIGH ANGULAR RESOLUTION DIFFUSION MR TRACTOGRAPHY
T. J. Re; A. Righini; P.E. Grant; E. Takahashi
Radiology, Boston Children’s Hospital (BCH), Harvard Medical School, Boston, U.S.A; Radiology, Buzzi Children’s Hospital of Milan, Italy; Division of Newborn Medicine, Dept. of Medicine, BCH, Harvard Medical School, Boston, U.S.A. Thomas J Re

(001) GRAN ROUND: FETAL BRAIN MRI AND MRS IN CORRELATION WITH LONG-TERM NEURODEVELOPMENTAL IMPAIRMENT
V. Banovic; M. Banovic; S. Skrablin; I. Babic
Department of Obstetrics and Gynecology Clinical Hospital Center Zagreb; Medical School University of Zagreb Vladimir Banovic

(002) INCIDENTAL FINDINGS ON ROUTINE MRI SCANS IN VLBW BABIES: SHOULD WE EXPECT THE UNEXPECTED?
M. Malova 1; L.A. Ramenghi 1; A. Parodi 1; M. Severino 2; G. Morana 2; A. Sannia 2; A. Rossi 2
1 Neonatal Intensive Care Unit, Istituto Giannina Gaslini, Genoa, Italy; 2 Pediatric Neuroradiology Unit, Istituto Giannina Gaslini, Genoa, Italy Mariya Malova

(003) FETAL CEREBELLAR HAEMORRHAGE: A CASE-SERIES WITH FOLLOW-UP
S. Steggerda 1; R. F. Aarons 1; C. Peders-Schollfe 1; F. de Bruyne 2; F. Klump 3
From the Departments of 1; Neuroradiology 2; Gynaecology & Obstetrics 3; and Neonatology 4 of the Leiden University Medical Centre, Leiden, the Netherlands S.J. Steggerda

(004) DEVELOPMENT OF THE FETAL VERMIS: NEW BIOMETRIC REFERENCE DATA AND COMPARISON OF THREE DIAGNOSTIC MODALITIES: 3D, 2D ULTRASOUND AND MAGNETIC RESONANCE IMAGING
E. Katorza 1; E. Bertucci 3; S. Perlman 1; S. Taschini 3; S. Kale 4; R. Ber 1; C. Hoffmann 2; Y. Gilboa 1; V. Mazza 3; R. Achiron 1
1 Department of Obstetrics and Gynecology; 2 Department of Diagnostic Imaging, the Chaim Sheba Medical Center, Tel Hashomer, Tel-Aviv, Israel; 3 Department of Obstetrics and Gynecology, Prenatal Medicine Unit; 4 Biostatistic Unit, Modena and Reggio Emilia University Eldad Katorza

(005) FETAL BRAIN MRI: NOVEL CLASSIFICATION AND CONTRIBUTION TO SONOGRAPHY
E. Katorza 1; J. Gat 1; C. Hoffmann 2; D. Shashar 1; O. Bar-Yosef 1; E. Konen 2; R. Achiron 1
1 Antenatal Diagnostic Unit, Department of Obstetrics and Gynecology; 2 Department of Diagnostic Imaging; 3 The Chaim Sheba Medical Center, Tel Hashomer, and Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel. Eldad Katorza

(006) PRENATAL BRAIN IMAGING IN ISOLATED VS. COMPLICATED CLUB FOOT: MR AND NEUROSONOGRAPHY STUDY
E. Katorza 1; J. Gat 1; C. Hoffmann 2; D. Shashar 1; O. Bar-Yosef 1; E. Konen 2; R. Achiron 1
1 Antenatal Diagnostic Unit, Department of Obstetrics and Gynecology; 2 Department of Diagnostic Imaging, The Chaim Sheba Medical Center, Tel Hashomer, and Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel. Eldad Katorza

(008) PRENATAL BRAIN IMAGING IN ISOLATED VS. COMPLICATED CLUB FOOT: MR AND NEUROSONOGRAPHY STUDY
S. Goergen (1,2); A. Robinson 3; M. Batt 1, J. Clark 1, A. Edwards 3,4; M. Pe 3
1 Monash Imaging, Monash Health, Clayton, Victoria, Australia; 2 Monash University, Department of Surgery, Southern Clinical School, Clayton, Victoria, Australia; 3 Fetal Diagnostic Unit, Monash Health, Clayton, Victoria, Australia; 4 Monash University, Department of Obstetrics and Gynecology, Clayton, Victoria, Australia Stacy Goergen

(026) PRENATAL DIAGNOSIS OF FETAL VENTRICULOMEGALY: AGREEMENT BETWEEN FETAL BRAIN ULTRASOUNDOGRAPHY AND MR IMAGING
E. Katorza 1; S. Perlman 1; D. Shashar 1; C. Hoffmann 2; O. Bar-Yosef 1; R. Achiron 1
1 Antenatal Diagnostic Unit, Department of Obstetrics and Gynecology; 2 Department of Diagnostic Imaging; 3 Pediatric Neurology Unit, The Chaim Sheba Medical Center, Tel Hashomer, and Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel. Eldad Katorza

(009) MONOCHORIONIC TWIN GESTATIONS COMPLICATED BY SPONTANEOUS COTWIN DEMISE OR TWIN TWIN TRANSFUSION SYNDROME: WHAT DOES FETAL MRI ADD?
S. Goergen (1,2); A. Robinson 3; M. Batt 1; J. Clark 1; A. Edwards 3;4; M. Teoh 3
1 Monash Imaging, Monash Health, Clayton, Victoria, Australia; 2 Monash University, Department of Surgery, Southern Clinical School, Clayton, Victoria, Australia; 3 Fetal Diagnostic Unit, Monash Health, Clayton, Victoria, Australia; 4 Monash University, Department of Obstetrics and Gynecology, Clayton, Victoria, Australia Stacy Goergen
08.30 - 09.15  KEY NOTE LECTURE 2  
THE IMPORTANCE OF NEUROEMBRYOLOGY  
Martin Catala (Paris, France)

SESSION 3: VIRTUAL AUTOPSY  
Chairpersons: Yves Ville (Paris, France)

09.15 - 09.35  HIGH RESOLUTION DTE OF NORMAL BRAIN DEVELOPMENT IN VITRO  
Ellen Grant (Boston, USA)

09.35 - 09.55  FETAL AUTOPSY CT IN THE FIRST TRIMESTER  
Claudio Lombardi (Milan, Italy)

09.55 - 10.15  ETAL MRI  
Fabio Triulzi (Milano, Italy)

SESSION 4: THE COMPLEXITY OF CORTICAL DEVELOPMENT  
Chairperson: Eugenio Mercuri (Roma, Italy)

10.15 - 10.45  ULTRASOUND DIAGNOSIS OF FETAL CORTICAL MALFORMATION  
Gustavo Malinger (Tel Aviv, Israel)

10.45 - 11.10  BREAK

11.10 - 11.40  MRI DIAGNOSIS OF FETAL CORTICAL MALFORMATION  
Andrea Righini (Milan, Italy)

11.40 - 12.10  CLINICAL OUTCOME OF CORTICAL MALFORMATION  
Renzo Guerrini (Florence, Italy)

12.10 - 12.30  Discussion

12.30 - 13.30  BREAK

SESSION 5: HEART AND BRAIN  
Chairpersons: Luca Ramenghi (Genoa, Italy) - Dario Paladini (Genoa, Italy)

13.30 - 14.00  FETAL ECHOCARDIOGRAPHY TODAY  
Pro: Giulia Tuo (Genoa, Italy)  
Con: Rabih Chaoui (Berlin, Germany)

14.00 - 14.30  FETAL CARDIAC MRI: FRIEND OR FOE  
Francesca Raimondi (Paris, France)

14.30 - 15.00  POSTNATAL CARDIAC MRI  
Francesca Raimondi (Paris, France)

15.00 - 15.20  Discussion

15.20 - 15.45  BREAK

15.45 - 16.15  BRAIN MRI IN CARDIAC MALFORMATIONS  
Ellen Grant (Boston, USA)

16.15 - 16.45  CHARGE SYNDROME  
Pascale Sonigo (Paris, France) - Laurent Salomon (Paris, France)

16.45 - 17.15  THE MOST COMMON VASCULAR ACQUIRED LESIONS IN SUCH NEONATES  
Paul Gouvet (Rotterdam, Netherlands)

17.15 - 17.45  Discussion
ULTRASOUND AND MRI IN FETAL SPINAL ANOMALIES OTHER THAN DYSRAPHISM AT 20-21 WEEKS OF GESTATION: A CASE SERIES STUDY
D. Pugash 1, P Thieessen 2, B. Irwin 3, D. Cochrane 4
1 University of British Columbia, Department of Radiology; 2 University of British Columbia, Department of Pediatrics; 3 Children’s and Women’s Health Centre of British Columbia; 4 University of British Columbia, Department of Neurosurgery Denise Pugash

EXAMINATION OF SUBPLATE AND INTERMEDIATE FETAL CEREBRAL LAYERS AT 25 TO 29 WEEKS’ GESTATION BY TRANSVAGINAL NEUROSONOGRAPHY IN SEVERELY RESTRICTED GROWTH FETUSES
T. Loureiro; S. Diniz; T. Castro
Department of Obstetrics and Gynecology, João Hospital, Medical School, University of Porto, Porto, Portugal Teresa Loureiro

CURRENT LIMITS IN DIAGNOSIS OF PLACENTAL ACCRETISM
Department of Obstetrics and Gynecology, Department of Radiological Science Università Cattolica del Sacro Cuore Policlinico Universitario “A. Gemelli” Rome, Italy

THREE-DIMENSIONAL TRANSVAGINAL SONOGRAPHIC ASSESSMENT OF THE HUMAN EMBRYONIC BRAIN
T. Kovacs, D. Bitoir-Burza; F. Stamatian
1st Clinic of Obstetrics and Gynecology, University of Medicine and Pharmacy, Cluj-Napoca, Romania

MORPHOGENESIS OF THE BRAIN IN THE EMBRYONIC PERIOD: ANATOMICAL STUDY AND IN VITRO ASSESSMENT WITH 7 T MICRO-MRI
D. Bitoir-Burza 1; C. Crivi 2; F. Turcu 3; S. Facasanu 4; F. Stamatian 5
1. 1st Clinic of Obstetrics and Gynecology, University of Medicine and Pharmacy, Cluj-Napoca, Romania; 2 Department of Anatomy and Embryology, University of Medicine and Pharmacy, Cluj-Napoca, Romania; 3 National Magnetic Resonance Center, “Babes-Bolyai” University, Cluj-Napoca, Romania; 4 National Magnetic Resonance Center, “Babes-Bolyai” University, Cluj-Napoca, Romania; 5 1st Clinic of Obstetrics and Gynecology, University of Medicine and Pharmacy, Cluj-Napoca, Romania Dan Bitoir-Burza
SESSION 6: VEIN OF GALEN MALFORMATION
Chairpersons: Laurent Guibaud (Lyon, France) - Andrea Righini (Milan, Italy)

09.30 - 10.00  FETAL ULTRASOUND FEATURES
Benjamin Deloison (Paris, France)

10.00 - 10.30  FETAL AND NEONATAL MRI
Andrea Rossi (Genoa, Italy)

10.30 - 11.00  THE RATIONALE FOR TREATMENT
Carlo Gandolfo (Genoa, Italy)

11.00 - 11.20  Discussion

11.20 - 11.40  BREAK

SESSION 7: UPDATE ON SPINE ANOMALIES
Chairperson: Luca Ramenghi (Genoa, Italy)

11.40 - 12.10  US AND DYSRAPHYSM
Gianluigi Piku (Bologna, Italy)

12.10 - 12.40  THE COMPLEXITY OF MRI DIAGNOSIS
Andrea Rossi (Genoa, Italy)

12.40 - 13.00  Discussion

13.00 - 14.00  BREAK

SESSION 8: FETAL INFECTIONS
Chairpersons: Yves Ville (Paris, France) - Denise Pugash (Vancouver, British Columbia)

14.00 - 14.30  US DIAGNOSIS
Yves Ville (Paris, France)

14.30 - 15.00  CMV INFECTION: MRI DIAGNOSIS
Pascale Sonigo (Paris, France)

15.00 - 15.30  Discussion

15.30 - 16.00  BREAK

SESSION 9: ACQUIRED BRAIN LESIONS, COMMON IN VERY PREMATURE BABIES AND POSSIBLE DURING FETAL LIFE
Chairpersons: Yves Ville (Paris, France) - Andrea Righini (Milan, Italy)

16.00 - 16.30  US TO DIAGNOSE FETAL INTRAVENTRICULAR HAEMORRHAGE (IVH) AND VENOUS THROMBOSIS
Gustavo Malinger (Tel Aviv, Israel)

16.30 - 17.00  FETAL CEREBELLAR HAEMORRHAGE AND IVH DIAGNOSED WITH MRI
Maria Savina Severino (Genoa, Italy)

17.00 - 17.30  THE FETAL HYDROCEPHALUS: THE ROLE OF MRI
Lucia Manganaro (Rome, Italy)

17.30 - 18.00  THE ROLE OF US AND MRI IN DIAGNOSIS LOW GRADE HAEMORRHAGE OF PREMATURE BABIES
Luca Ramenghi (Genoa, Italy)

18.00 - 18.30  Discussion

18.30 - 19.00  CLOSING REMARKS
ONSITE REGISTRATION FEES

Full registration physician  € 450,00
Technologist, student, fellow  € 250,00

Registration fees include:
• Access to all Scientific Sessions
• Attendance badge
• Final Scientific Program
• Italian CME accreditation
• Electronic Certificate of attendance
• VAT 22% included

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English

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