INTRODUCTION
Yves Ville (Paris, France) - Luca Ramenghi (Genoa, Italy)

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)

APPLICATION OF INTRAUTERINE DIFFUSION TENSOR IMAGING
Christian Mitter (Vienna, Austria)

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

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

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

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

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

VARIETY OF POSTERIOR FOSSA MALFORMATIONS AND OUTCOME
Laurent Guibaud (Lyon, France)
ORAL COMMUNICATIONS

A CASE OF VENTRICULOMEGALY
S. Goergen (1,2); G. Whiteley 1; M. Fahey 3

1 Monash Imaging, Monash Health, Clayton, Australia; 2 Department of Surgery, Monash University, Clayton, Australia; 3 Paediatric Neuroradiology Unit, Monash Health, Clayton, Australia

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

INCIDENTAL FINDINGS ON ROUTINE MRI SCANS IN VLBW BABIES: SHOULD WE EXPECT THE UNEXPECTED?
M. Malova 1; L.A. Ramenghi 1; A. Paradi 1; M. Severina 2; G. Morana 2; A. Sannia 1; A. Rossii 2

1 Neonatal Intensive Care Unit, Istituto Giannina Gaslini, Genoa, Italy; 2 Pediatric Neuroradiology Unit, Istituto Giannina Gaslini, Genoa, Italy Mariya Malova

FETAL CEREBELLAR HAEMORRHAGE: A CASE-SERIES WITH FOLLOW-UP
S. Steggerda 4; N. Aziz 1; C. Peeters-Scholte 1; F. de Bruine 2; F. Klumper 3; C. Peeters-Scholte 1; F. de Bruine 2; F. Klumper 3

From the Departments of 1; Neuroradiology 2; Gynecology & Obstetrics 3; and Neonatology 4 of the Leiden University Medical Centre, Leiden, the Netherlands S.J. Steggerda

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. Kalec 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 University, Israel; 3 Department of Obstetrics and Gynecology, Prenatal Medicine Unit, Biostatistic Unit, Modena and Reggio Emilia University Eldad Katorza

FETAL BRAIN MRI: NOVEL CLASSIFICATION AND CONTRIBUTION TO SONOGRAPHY
E. Katorza 1; J. Gat 1; C. Hoffmann 2; D. Shashar 1; D. Bar-Yosef 3; E. Koheni 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

PRENATAL BRAIN IMAGING IN ISOLATED VS. COMPLICATED CLUB FOOT: MR AND NEUROSONOGRAPHY STUDY
E. Katorza 1; J. Gat 1; C. Hoffmann 2; O. Lebovitz 1; D. Shashar; Y. Gilboa 1; I. Yagel 1; R. Achiron 1

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FETAL MRI VERSUS POSTNATAL IMAGING IN THE MR-COMPATIBLE INCUBATOR
M. Bekieszinska-Figotowska; A. Romanuk-Doroszewski; A. Dyczkowski; M. Dyczkowski; B. Iwanowska; S. Szudzikis-Pawalak

Dept. of Diagnostic Imaging, Institute of Mother and Child, Warsaw, Poland. M. Bekieszinska-Figotowska

PRENATAL DIAGNOSIS OF FETAL VENTRICULOMEGALY: AGREEMENT BETWEEN FETAL BRAIN ULTRASONOGRAPHY AND MR IMAGING
E. Katorza 1; S. Perlman 1; D. Shashar 1; C. Hoffmann 1; 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

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; J. 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 DTI 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  FETAL MRI
Fabio Truiu (Milan, Italy)
10.15 - 10.35  Discussion
10.35 - 11.00  BREAK

SESSION 4: THE COMPLEXITY OF CORTICAL DEVELOPMENT
Chairperson: Eugenio Mercuri (Rome, Italy)
11.00 - 11.30  ULTRASOUND DIAGNOSIS OF FETAL CORTICAL MALFORMATION
Gustavo Malinger (Tel-Aviv, Israel)
11.30 - 12.00  MRI DIAGNOSIS OF FETAL CORTICAL MALFORMATION
Andrea Righini (Milan, Italy)
12.00 - 12.30  CLINICAL OUTCOME OF CORTICAL MALFORMATION
Renzo Guerrini (Florence, Italy)
12.30 - 12.50  Discussion
12.50 - 13.45  BREAK

SESSION 5: HEART AND BRAIN
Chairpersons: Luca Ramenghi (Genoa, Italy) - Dario Paladini (Genoa, Italy)
13.45 - 14.15  FETAL ECHOCARDIOGRAPHY TODAY
Pros: Giulia Tuo (Genoa, Italy)
Cons: Rabih Chaoui (Berlin, Germany)
14.15 - 14.45  FETAL CARDIAC MRI: FRIEND OR FOE
Francesca Raimondi (Paris, France)
14.45 - 15.15  POSTNATAL CARDIAC MRI
Francesca Raimondi (Paris, France)
15.15 - 15.35  Discussion
15.35 - 16.00  BREAK
16.00 - 16.30  BRAIN MRI IN CARDIAC MALFORMATIONS
Ellen Grant (Boston, USA)
16.30 - 17.00  CHARGE SYNDROME
Pascale Sonigo (Paris, France) - Laurent Salomon (Paris, France)
17.00 - 17.30  THE MOST COMMON VASCULAR ACQUIRED LESIONS IN SUCH NEONATES
Paul Govaert (Rotterdam, Netherlands)
17.30 - 18.00  Discussion
18.00 - 19.40 ORAL COMMUNICATIONS

INTERSTITIAL PREGNANCY. DULAIMY; K. CATANZANO; T. RADIOLOGY DEPARTMENT, BAYSTATE MEDICAL CENTER, SPRINGFIELD, MASSACHUSETTS, USA
K. Dulaimy
Baystate Medical Center, Springfield, USA

PREGNATAL DIAGNOSIS OF TUBEROUS SCLEROSIS. DO WE NEED BRAIN MR?
R. Amster
Lis Maternity Hospital, Tel-Aviv, Israel

FETAL MRI FOR OPEN FETAL MYELOMENINGOCELE REPAIR AT THE ZURICH CENTER FOR FETAL DIAGNOSIS AND THERAPY
U. Moehrlen (1,2); I. Blume (1,5); C. Nasiadko (1,5); N. Ochsenbein (1,3); C.J. Kellenberger (1,5); R. Zimmermann (1,3); M. Meuli (1,2); I. Scheer (1,5)
1 The Zurich Center for Fetal Diagnosis and Therapy, Switzerland; 2 Department of Pediatric Surgery, University Children’s Hospital Zurich, Switzerland; 3 Department of Obstetrics, University Hospital Zurich, Switzerland; 4 Department of Anesthesiology, University Hospital Zurich, Switzerland; 5 Department of Radiology, University Children’s Hospital Zurich, Switzerland Ueli Moehrlen

ANOMALIES OF THE FETAL AORTIC ARCH; CORRELATION BETWEEN IN UTERO ULTRASOUND EXAMINATION AND POSTNATAL MRI/CT
R. Achiron 1; Y. Salem 2
1 Ultrasound unit Department of OB/GY; 2 Non Invasive Pediatric Cardiology Sheba Medical Center, Tel Hashomer, and Sackler School of Medicine, Tel Aviv University, Tel-Aviv, Israel

COMPARISON BETWEEN THE NON-INVASIVE APPROACH USING POST-MORTEM MRI AND CONVENTIONAL AUTOPSY IN FOETAL RENAL ANOMALIES ASSESSMENT – A CASE SERIES?
A. Staicu 1; G. Caracostea (1,4); Stanila Popa 2; A. Cioca (3,4); L. Chiriac (5,6); F. Stamatian (1,4)
1 Gynecology Clinic 1 “Mother and Child” Department, University of Medicine and Pharmacy “Iuliu Hatieganu” Cluj-Napoca, Romania; 2 Department of Radiology, University of Medicine and Pharmacy “Iuliu Hatieganu”, Cluj-Napoca, Romania; 3 Department of Pathology, University of Medicine and Pharmacy “Iuliu Hatieganu”, Cluj-Napoca, Romania; 4 Department of Pathology, Imagen Research Centre, Cluj-Napoca, Romania; 5 Faculty of Physics, “Babes Bolyai” University M. Kogalniceanu 1, Cluj-Napoca, Romania; 6 National Magnetic Resonance Centre, “Babes-Bolyai” University M. Kogalniceanu 1, Cluj-Napoca, Romania Adelina Staicu

THREE-DIMENSIONAL TRANSVAGINAL SONOGRAPHIC ASSESSMENT OF THE HUMAN EMBRYONIC BRAIN
T. Kovacs; D. Boitor-Borza; 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. Boitor-Borza 1; C. Crivi 2; F. Turcu 3; S. Farcașanu 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 Boitor-Borza
SESSION 6: VEIN OF GALEN MALFORMATION
Chairpersons: Laurent Guibaud (Lyon, France) - Andrea Righini (Milan, Italy)
08.45 - 09.15 FETAL ULTRASOUND FEATURES
Benjamin Deloison (Paris, France)
09.15 - 09.45 FETAL AND NEONATAL MRI
Andrea Rossi (Genoa, Italy)
09.45 - 10.15 THE RATIONALE FOR TREATMENT
Carlo Gandolfo (Genoa, Italy)
10.15 - 10.35 Discussion
10.35 - 11.00 BREAK

SESSION 7: UPDATE ON SPINE ANOMALIES
Chairperson: Luca Ramenghi (Genoa, Italy) - Yves Ville (Paris, France)
11.00 - 11.30 US AND DYSRA PHYSM
Gianluigi Pilu (Bologna, Italy)
11.30 - 12.00 THE COMPLEXITY OF MRI DIAGNOSIS
Andrea Rossi (Genoa, Italy)
12.00 - 12.30 FETAL SPINAL DYSRA PHYSM: THE CONUS MEDULLARIS AND THE SPECTRUM OF NEURAL TUBE DEFECTS
D. Pugash (Vancouver, British Columbia)
12.30 - 13.00 Discussion
13.00 - 14.00 BREAK