

Scientific Program

18.50-19.00 Welcome to the 24th IFMSS Meeting

SESSION I: Twin to twin transfusion syndrome

Moderators: Mark Evans and Connie Jorgensen

19.00-19.10 In memoriam: John C. Fletcher, Ph.D

Mark I. Evans

Mt. Sinai School of Medicine, NJ, USA.

19.10-19.20 TTTS before 15 weeks of gestation.

L. Lewi, Roland Devlieger, D. Van Schoubroeck, M. Cannie,
J. Jani, J. Deprest.

Fetal Medicine Unit, Department of Obstetrics and Gynaecology, University Hospital, Leuven, Belgium.

19.20-19.30 Placental origin of paradoxical renin angiotensin system activation in recipient fetuses with TWIN-TWIN TRANSFUSION syndrome.

Paula Galea, V. Jain, M. Sullivan, O. Barigye, L. Wee, R. Wimalasundera,
H.M.Gardiner, N.M. Fisk.

Experimental Fetal Medicine Group, Institute of Reproductive and Developmental Biology, Imperial College London, UK.

19.30-19.40 Fetal cardiac output in monochorionic twins with and without twin-to-twin transfusion syndrome.

Marieke Sueters, J. M. Middeldorp, E. Lopriore, R. Bokenkamp, D. Oepkes,
F. J.C.M. Klumper, S. le Cessie, H. H.H. Kanhai, F. P.H.A. Vandenbussche.

Department of Obstetrics, b: Department of Pediatrics, c: Department of Statistics, Leiden University Medical Center, Leiden, The Netherlands.

19.40-19.50 Amnioreduction alters the staging sequence of twin-twin transfusion syndrome in monoamniotic twins.

A. HP. Schaap, J. PHM van den Wijngaard, P. GJ Nikkels,

A. JM van den Broek, I. Snieders, Martin JC van Gemert.

Departments of Obstetrics and Gynecology, Laser Center, Neonatology and Pathology, Academic Medical Center, Amsterdam and the Department of Pathology, University Medical Center, Utrecht, The Netherlands.

19.50-20.00 Monochorionicity within triplet pregnancies.

Lucy C Chappell, R. Sen, N. M. Fisk.

Experimental Fetal Medicine Group, Institute of Reproductive and Developmental Biology, Imperial College London, UK.

20.00-20.10 Preliminary model of abnormal umbilical Doppler flows in twin-twin transfusion syndrome.

Jeroen PHM van den Wijngaard, D. J. Faber, M. G. Ross, M. J.C. van Gemert.

Laser Center, Academic Medical Center, Amsterdam, The Netherlands, and Department of Obstetrics and Gynecology, Harbor-UCLA School of Medicine, Torrance, California. USA.

20.10-20.20 Reversal of Twin-Twin Transfusion Syndrome: A possibility with both amnioreduction or laser therapy.

Giancarlo Mari, S. Hassan, J. Santolaya Forgas
Wayne State University. Detroit. Michigan, USA

20.20 Dinner

Monday 23rd May

SESSION II: Congenital Diaphragmatic Hernia, Fetal Tissue Engineering and Fetal Pain

Moderators: Mike Harrison and Alexandra Benachi

08.00–08.10 Prognostic values in CDH: Another lecture.

Vincent Martinez-Ibañez, J. L. Peiró, G. S. Guindos S, J Lloret, E Gratacós, E. Carreras, T. Higuera, J Vinzo.
Fetal Surgery Program. Hospital Universitari Vall d'Hebrón. Barcelona. Spain.

08.10-08.20 Prenatal evaluation of pulmonary vasculature by three-dimensional power Doppler ultrasonography in cases with isolated congenital diaphragmatic hernia as a prognostic factor.

Rodrigo Ruano, M-C. Aubry, B. Barthe, V. Bunduki, M. Zugaib, Y. Dumez, A. Benachi.
Maternité. Hôpital Necker-Enfants Malades, AP-HP, Université de Paris V, France and Fetal Medicine Unit, Obstetrics department, Universidade de São Paulo, Brazil.

08.20-08.30 Standardization of the LHR

Joseph P. Bruner, Edmund Yang
Childrens Hospital, Vanderbilt University, Nashville, Tennessee, USA.

08.30-08.40 Lung-to-Head Ratio and liver position to predict outcome in early diagnosed isolated left sided diaphragmatic hernia fetuses: a multicenter study.

Jacques. Jani, A. Benachi, R. Keller , R. Favre, O. Moreno, H. Vandecruys, M. Harrison, J. Matis, E. Gratacos, K. Nicolaides, J. Deprest.
University Hospitals of Gasthuisberg, Leuven, Belgium, Necker-Enfants Malades, Paris, France, University of California at San Francisco, USA, Strasbourg, France, Vall d'Hebron Barcelona, Spain, 6 Kings College, London, UK.

08.40-08.50 Improving results with percutaneous Fetal Endoscopic Tracheal Occlusion (FETO) for severe left congenital diaphragmatic hernia.

Jacques. Jani, E. Gratacos, H. Vandecruys, K. Allegaert, E. Carrera , A Greenough, JL Peiro, K Nicolaïdes, J. Deprest
Dept. Obstetrics & Gynecology, University Hospitals Gasthuisberg, Leuven, Belgium, Vall d'Hebron Barcelona, Spain, Kings College, London, UK.

- 08.50-09.00 Fetal inflammation and scarless wound healing**
Oluyinka Olutoye
Texas Centre for Fetal Surgery, Texas Children's Hospital,
Houston, Texas, USA
- 09.00-09.10 Diaphragmatic repair through fetal tissue**
Engineering: A Comparison between mesenchymal amniocyte – and myoblast-based constructs.
S. M. Kunisaki, J. R. Fuchs, A. Kaviani, J.-T. Oh, D. LaVan,
J. P. Vacanti, J. M. Wilson, Dario O. Fauza.
Advanced Fetal Care Center, Children's Hospital Boston, USA.
- 09.10-09.20 Cartilage engineering from mesenchymal amniocytes: Possible application in the treatment of congenital tracheal anomalies.**
S. M. Kunisaki, R. W. Jennings, Dario O. Fauza.
Advanced Fetal Care Center, Children's Hospital Boston, USA.
- 09.20-09.30 Bladder exstrophy in fetal sheep: an experimental model and in utero repair with a collagen biomatrix.**
L.A.J. Roelofs, A.J. Eggink, Paul Pierre van den Berg, C. Hulsbergen-v.d. Kaa,
R.M.H. Wijnen, T.H. v. Kuppevelt, H. v. Moerkerk, A.J. Crevels,
F.K. Lotgering, W.F.J. Feitz
Groningen, The Netherlands
- 09.30-09.40 Fetal Plasma Concentrations After Intraamniotic Fentanyl in Instrumented Pregnant Sheep.**
Rolland Brusseau, S. Kunisaki, D. Fauza, T. Buchmiller, T. Maher,
M. Bohlke, L. B. Myers, M.D.
Advanced Fetal Care Center, Children's Hospital Boston, USA.
- 09.40-09.50 Effects of nociceptive stimulati on fetal pulmonary circulation.**
Véronique Houfflin Debarge. B. Sicot, A Delelis, B.S Jaillard, N. Rouaix-
Emery, I. Gueorgieva, L. Storme, F. Puech.
Department of Perinatology, Hopital Jeanne de Flandres,
CHRU de LILLE, France.
- 09.50-10.00 Long term consequences of fetal pain? experimental study on fetal lambs.**
Véronique Houfflin Debarge, A Delelis, B Sicot, L Behr, P Deruelle,
I Gueorgieva, B Soudan, L Storme, F Puech.
Department of Perinatology, Hopital Jeanne de Flandres,
CHRU de LILLE. France.
- 10.00-10.30 Coffee and Tea break**

SESSION III: Prenatal diagnosis, Growth restriction and infection

Moderators: Umberto Nicolini and Ross Welch

- 10.30-10.40 Early prenatal diagnosis of Cloacal exstrophy with fetal magnetic resonance.**
Paola Midrio, D. Gobbi, F. Fascetti Leon, P. Suma, A. Tregnaghi, P.G. Gamba.
Dept. of Pediatric Surgery, Padua Italy.
- 10.40-10.50 Prenatal Corticotherapy and Development of Necrotic enterocolitis.**
M.W. Guimarães Barreto, H.O. Olímpio, Ricardo Barini, L. Sbragia.
Division of Pediatric Surgery and Maternal-Fetal Medicine, Department of Surgery and Department of Obstetrics and Gynecology, State University of Campinas, Campinas, Brazil.
- 10.50-11.00 Differential diagnosis of foetal (supra-) renal cystic masses: What can MRI add?**
J. Van Keirsbilck, M. Cannie, D. Van Schoubroeck, Dr. S. Dymarkowski, Roland Devlieger.
Department of Obstetrics and Gynaecology, University Hospitals Leuven, Belgium.
- 11.00-11.10 2 sets of twins discordant for neurological anomaly.**
Ross Welch
Arrowe Park Hospital, Heswall, Wirral, UK.
- 11.10-11.20 Obstetrical MRI- is there any harm for the fetus?**
E. Ruckhaeberle, R. Oberhoffer, K. T. M. Schneider, S. Nekolla, K. Schreiber, A. Raidt, Nikolaos A. Papadopoulos.
Dept of Obstetrics & Gynecology, Pediatric Cardiology and Nuclear Medicine, Institute of Experimental Oncology & Treatment Research, and Dept of Plastic & Reconstructive Surgery, Technical University of Munich, Germany
- 11.20-11.30 Contribution of 3D volume contrast imaging (VCI) in imaging the fetal uterus in normally developed female fetuses.**
Jean-Marie Jouannic, J.L. Benifla.
Maternité, Hôpital Rothschild, Paris, France
- 11.30-11.40 Three-dimensional ultrasonographic assessment of placental volumes in pregnancies complicated by absent umbilical diastolic flow – initial results**
Rodrigo Ruano, R. P. V. Francisco, V. Bunduki, M. Zugaib.
Fetal Medicine Unit, Obstetrics Department, Faculdade de Medicina, Universidade de São Paulo, Brazil.
- 11.40-11.45 Quantitative evaluation of placental vascularization in pregnancies complicated with absent umbilical diastolic flow by three-dimensional power Doppler ultrasonography – initial results**
Rodrigo Ruano, R.P.V. Francisco, A.M. Nozaki, S. Miyadahira, M. Zugaib.

Fetal Medicine Unit, Obstetrics Department, Faculdade de Medicina,
Universidade de São Paulo, Brazil.

11.45-11.55 Induced intrauterine growth restriction in lamb fetuses and development of an antenatal and postnatal insulin resistance.

Véronique Houfflin-Debarge, I Gueorguieva, P Deruelle, S Jaillard, B Sicot,
L Storme, J Weill.
Department of Perinatology, Hopital Jeanne de Flandres,
CHRU de LILLE. France.

11.55-12.05 IVF calves delivered by caesarean section.

Mette Schmidt
Veterinary Obstetric, Copenhagen, Denmark.

12.05-12.15 Outcome of CMV infection in twin pregnancies.

Shlomo Lipitz.
Dept Obstet Gynecol, The Sheba Medical Center, Tel/Hashomer, Israel.

12.15-12.25 TORCH screen for Fetal Medicine indications: Is it always necessary as a one test?

Sherif Abdel-Fattah, A. Bhat, S. Illanes, J. Bartha, D. Carrington.
St Michael's Hospital, Bristol, United Kingdom.

12.25-12.35 Interesting news from Umberto Nicolini

12.35-13.35 Lunch

SESSION IV: TTTS

Moderators: Francois Luks and Nick Fisk

13.35-13.45 Modelling the natural colour perception of donor and recipient arterial blood in severe twin-twin transfusion syndrome.

Harry R de Vries, M.C.G. Aalders, D.J. Faber, J.P.H.M. van den Wijngaard,
P.G.J Nikkels, M.J.C van Gemert.
Laser Centre, Academic Medical Centre, Amsterdam and 1Department of
Pathology, University Medical Center, Utrecht, The Netherlands.

13.45-13.55 Predicting outcome after laser RX for TTTS.

C.E. Pennell, F. Alkazaleh, P.G.R. Seaward, R. Windrim, O. Berezovska,
P. Green, E.N. Kelly, Greg Ryan.
Department of Obstetrics, Mount Sinai Hospital, University of Toronto, Canada.

13.55-14.05 What is the optimal anaesthesia for Laser for TTTS.

C. E. Pennell, J. Porter, F. Alkazaleh, S. Davies, Greg Ryan.
Departments of Anaesthesia and Obstetrics, Mount Sinai Hospital, University of
Toronto, Canada.

14.05-14.15 Combined laparoscopy and fetoscopy for uterine entry in twin-to-twin transfusion syndrome with anterior placenta: A novel technique.

Frank Vandenbussche

Division of Fetal Medicine, Department of Obstetrics
Leiden University Medical Center, Leiden, The Netherlands

14.15-14.25 Selective use of laser ablation in severe (stages I-IV) twin-to-twin transfusion syndrome.

J. Ballard Dwan, S. R. Carr, T. F. Tracy, C. Cassese, Francois I. Luks

Division of Pediatric Surgery and Program in Fetal Medicine, Brown Medical School, Providence, Rhode Island, USA.

14.25-14.35 Neonatal outcome in twin-to-twin transfusion syndrome treated with fetoscopic laser occlusion of vascular anastomoses.

Enrico Lopriore, M. Sueters, A. Middeldorp, D. Oepkes, F. Klumper, F. Vandenbussche.

Division of Neonatology, Department of Pediatrics
Division of Fetal Medicine, Department of Obstetrics
Leiden University Medical Center, Leiden, The Netherlands.

14.35-14.45 Severe TTS diagnosed after 26 weeks gestation: is there a role for fetoscopic laser surgery?

Dick Oepkes, J.M.Middeldorp, M. Sueters, F.J.C.M. Klumper, E. Lopriore, F.P.H.A. Vandenbussche

Division of Neonatology, Department of Pediatrics
Division of Fetal Medicine, Department of Obstetrics
Leiden University Medical Center, Leiden, The Netherlands.

14.45-14.55 Experience with fetoscopic laser surgery for severe 2nd trimester twin-to-twin transfusion syndrome in the Netherlands.

Annemieke Middeldorp, M. Sueters, E. Lopriore, F.J.C.M. Klumper, D. Oepkes, H.H.H. Kanhai, F.P.H.A. Vandenbussche.

Division of Neonatology, Department of Pediatrics
Division of Fetal Medicine, Department of Obstetrics
Leiden University Medical Center, Leiden, The Netherlands.

14.55-15.05 Preliminary exp. with endoscopic laser surgery.

Vayssière Christophe.

Cmco-Sihcus, Schiltigheim, France

**15.05-15.40 Photography
Coffee and Tea break**

SESSION V: Pulmonary Hypoplasia, Pulmonary Lesions and Genetic

Moderators: Alan Flake and Wolfgang Holzgreve

15.40-15.50 Clinical experience with the gelatin sponge plug after endoscopic fetal surgery – minimizing the risk of PPROM

Francois I. Luks, S.R. Carr, D.L. Sorrells, T.F. Tracy

Division of Pediatric Surgery and Program in Fetal Medicine, Brown Medical School, Providence, Rhode Island, USA.

15.50-16.00 Ultrasonographic “fetal lung/body weight ratio”: how precise and accurate is it?

Rodrigo Ruano, J. Martinovic, Y. Dumez, L. Jobin, M-C. Aubry, J-C Thalabard, A. Benachi.

Maternité. Hôpital, Fœtopathologie and Unité de Recherche Clinique Necker-Enfants Malades, Paris, France

16.00-16.10 The use of a single MR Imaging biometric parameter to accurately quantify fetal relative lung volume in fetuses with pulmonary hypoplasia.

M. Cannie, Jacques. Jani, R. Devlieger, F. De Kyser, I. Witters,

D. Van Schouwbroeck, R. Peeters, J. Deprest, S. Dymarkowski.

Department of *Radiology, †Obstetrics and Gynaecology, University Hospital Gasthuisberg, Leuven, Belgium.

16.10-16.20 Prenatal diagnosis and outcome of children with pleuropulmonary blastoma.

Darrell Lorne Cass, D. N. Miniati, M. Chintagumpala, C. Langston,

B.I. Cassady, O.O. Olutoye.

Texas Center for Fetal Surgery, Texas Children’s Hospital, and the Michael E. DeBakey Department of Surgery, and Departments of Pediatrics and Pathology, Baylor College of Medicine, Houston, Texas.

16.20-16.30 Surgical counselling for congenital lung lesions - The keyhole factor.

Francois I. Luks, S.R. Carr, C. Cassese, A.G. Kurkchubasche,

T. F. Tracy, L. P. Rubin.

Division of Pediatric Surgery and Program in Fetal Medicine, Brown Medical School, Providence, Rhode Island, USA.

16.30-16.40 Rib Deformities After Early-Gestational Thoracomniotic Shunt and Fetal Therapy.

Aziz M. Merchant, H.L. Hendrick, S. Mahboubi, M.P. Johnson, R.D. Wilson, N.S. Adzick A.W. Flake.

Childrens Hospital of Philadelphia, USA.

16.40-16.50 Non – invasive prenatal diagnosis from fetal DNA in maternal blood: now finally available in practice.

Wolfgang Holzgreve.
Universitäts Frauenklinik, Basel, Schweiz.

16.50-17.00 Changing scene in prenatal diagnosis: use of QF-PCR as a stand alone analysis.

Bui TH, Westgren M, Ek S, Conner P, Nordenskjöld M.
Center of Fetal Medicine, Division of Transplantation Surgery, Karolinska
University Hospital, Stockholm, Sweden.

18.00 Busses leaves for the modern art museum Louisiana.

Tuesday 24th May

SESSION VI: Amniotic band, prenatal diagnosis and management, fetocide

Moderators: William Clewell and Charles Rodeck

- 08.00–08.10 Is Amniotic Band Syndrome an indication for in utero intervention?**
Mari Giancarlo, J. Santolaya Forgas.
Wayne State University. Detroit. Michigan, USA
- 08.10-08.20 Experimental model of severe extremity amniotic band in the ovine fetus. Basis study to the reparation by fetal surgery.**
Francesco Soldado, J.L. Peiró, M. Aguirre, N. Torán, C. Gine, C. Garcia-Fontecha, V Martinez-Ibáñez.
Experimental Fetal Surgery Unit. Department of Pediatric Surgery and Pathology. Hospital Universitari Vall d'Hebrón. Barcelona. Spain.
- 08.20-08.30 Firste Case in Spain of Exit procedure in a Fetus with a gigant oropharyngeal teratoma.**
José L. Peiró, E. Gratacós, E. Carreras, G Enriquez, J Lloret, J Vinzo, N Torán, JC Ferreres, C Giné, JA Gracia-Vaquero, F Pumarola, V Martinez-Ibáñez.
Pathology Department, Sections of Pediatric Maxillofacial Surgery and Pediatric ENT. Hospital Universitari Vall d'Hebrón. Barcelona. Spain.
- 08.30-08.40 Antenatal Diagnosis of Tracher Collins syndrome.**
Jennifer Ballard Dwan, F.I. Luks, S.R Carr, D.R Sorrells, L.P Rubin, T.F. Tracy, S.E. Gibson, E.K.S. Chien.
Fetal Medicine Program, Brown University School of Medicine, Providence, Rhode Island , USA.
- 08.40-08.50 Sacrococcygeal masses: Atypical prenatal appearance.**
Paola Midrio, D. Gobbi, F. Fascetti Leon, P. Suma, A. Tregnaghi.
Dept.of Pediatric Surgery, Padua Italy.
- 08.50-09.00 Anorectal malformations and assisted reproductive technology.**
Paola Midrio, C. Nogare Dalle, P.G. Gamba.
Dept.of Pediatric Surgery, Padua Italy.
- 09.00-09.10 Increasing detection rates of birth defects by prenatal ultrasound leading to apparent increasing prevalences. Lessons learned from the population-based Registry of Birth Defects of Barcelona.**
Marimer Perez, J. Salvador, A. Borrell, A. Lladonosa
Hospital Clinic Barcelona Spain.
- 09.10-09.20 Management of ovarian torsion in children: Clinicopathologic correlation.**
Darrell Lorne Cass, S.G. Muehlstedt, M.J. Hicks, K.K. Washburn, O.O. Olutoye, M.P. O'Day.
Michael E. DeBakey Department of Surgery, and the Departments of Pathology and Obstetrics and Gynecology, Baylor College of Medicine, Houston, Texas.

09.20-09.30 Treatment of ectopic ureterocele.

William H. Clewell.

Phoenic Perinatal Associates, Phoenix, USA.

09.30-09.40 Umbilical cord laser transection.

Frans Klumper, J. Middeldorp, D. Oepkes, F. Vandebussche.

Division of Fetal Medicine, Department of Obstetrics

Leiden University Medical Center, Leiden, The Netherlands.

09.40-09.50 Twin embolization syndrome following selective termination of a dizygotic co-twin.

Jude P. Crino, G. Stetten, C. McShane, D. Lin, K. Murphy, S.M. Petersen,

W. Kaufmann, G.M. Hutchins, K.J. Blackmore KJ.

Departments of Gynecology & Obstetrics and Pediatrics, The Johns Hopkins

University School of Medicine, Baltimore, Maryland, USA

09.50-10.00 Lidocaine for Selective Fetocide.

Roland Devlieger, D. Van Schoubroeck, L. Lewi, I. Witters, C. Van Holsbeke,

J.A. Deprest

Department of Obstetrics and Gynaecology, University Hospitals Leuven,

Belgium

10.00-10.30 Coffee and The break

SESSION VII: Fetal Echocardiography and Gastroschisis

Moderators: Helena Gardiner and Jack Rychik

10.30-10.40 Fetal Rhabdomyoma: Association with Tuberous Sclerosis Complex and post-natal outcome.

Julien Saada, H-R. Smail, L. Fermont, J. Lebidois, Y. Dumez, A. Benachi

Service d'Obstétrique and Service de Dermatologie Hôpital Necker-Enfants

Malades and Service de Cardiopédiatrie, Institut de Puériculture, Paris.

10.40-10.50 A comparison of conventional 2D fetal echocardiography with 3D STIC.

William JB Dennes¹, L. Pasquini¹, N.M. Fisk.

Experimental Fetal Medicine Group, Institute of Reproductive and

Developmental Biology, Imperial College London, UK.

10.50-11.00 Imaging of the Fetal Heart in Thoracopagus Twins

Z. Tian, M. McCann, D. D. Donaghue, Jack Rychik

Children's Hospital of Philadelphia. USA.

11.00-11.10 Selection of cases for Fetal Pulmonary Valvuloplasty

H.M. Gardiner, Lucia Pasquini, A. Barlow, C. Belmar, R. Franklin,

P.D. Daubeney, M.L. Rigby, S. Kumar.

Centre for Fetal Care, Queen Charlotte's and Chelsea Hospital, Royal Brompton

Hospital and the National Heart and Lung Institute, Imperial College,

London, UK

11.10-11.20 PR interval: a comparison of electrical and mechanical EKG
Lucia Pasquini, A. Seale, S. Oseku-Afful, M. Thomas, H. M. Gardiner
Centre for Fetal Care, Queen Charlotte's and Chelsea Hospital, Royal
Brompton Hospital and the National Heart and Lung Institute, Imperial College,
London, UK

11.20-11.30 The Single Ventricle Heart in the Fetus
Donaghue Denise, Tian Zhiyun, McCann Margaret, Rychik Jack.
Children's Hospital of Philadelphia, USA.

Moderators: Frederic Bargy and Anthony Johnson

11.35-11.45 Second Trimester Intra-Abdominal Bowel Dilation in Gastroschisis
Joseph P. Bruner, Edmund Yang.
Vanderbilt University Medical Center. USA

11.45-11.55 Unusual Malformations Associated with Gastroschisis: A Spectrum of Anomalies with a Common Etiology.
A.C.Fischer, J. Bienstock, J. Crino, S. Petersen, M. Zaharieva,
C. McShane, K. Blakemore.
Departments of Gynecology & Obstetrics and Pediatrics, The Johns Hopkins
University School of Medicine, Baltimore, Maryland, USA.

11.55-12.05 Gastroschisis in mice lacking aortic carboxypeptidase-like protein is associated with a defect in neuromuscular development restricted to the eviscerated intestine.
E. Danzer, M.D. Layne, T.E. Gorman, A. Radu, N.S. Adzick, A.W. Flake
Childrens Hospital of Philadelphia, USA.

12.05-12.15 Amnioexchange for the treatment of gastroschisis - an in vitro study to determine the volume and number of exchanges.
Kenneth Moise, Anthony Johnson ;University of North Carolina School of
Medicine, Chapel Hill, North Carolina.

12.15-12.25 Closure of an experimental gastroschisis with a collagen biomatrix in fetal sheep.
L.A.J. Roelofs, A.J. Eggink, P.P. van den Berg, C. Hulsbergen-v.d. Kaa, W.F.J.
Feitz, T.H. v. Kuppevelt, H. v. Moerkerk, A.J. Crevels, F.K. Lotgering, R.M.H.
Wijnen
Dept Obstet and Gynecol Groningen and Dept Obstet Gynecol, Radboud
University Nijmegen, The Netherlands

12.25-12.35 Stem Cell Transplantation
Manfred Hansmann and Magnus Westgren

12.35-13.35 Lunch

SESSION VIII: Spina bifida

Moderators: Mark P Johnson and Scott Adzick

13.35- 13.45 MOMS Trial Update

Adzick NS, Harrison MR, Yang EY, Thom EA
Childrens Hospital of Philadelphia, University of California San Francisco,
Vanderbilt University, and George Washington University.

13.45-13.55 Maternal-fetal surgery for myelomeningocele: Neural tube defects

Mark Paul Johnson, Marsha Gerdes.
Childrens Hospital of Philadelphia, USA.

13.55-14.05 MRI and US asseement of level of spinal dysraphism in fetuses Undergoing in uetero myelomeningecele repair.

Zarnow DM, Simon EM, Coleman BG, Bilaniuk LT, Danzer E, Sutton LN,
Johnson MP, Zimmernan RA, Adzick SN.
Childrens Hospital of Philadelphia, USA.

14.05-14.15 Long-term outcome of prenatally diagnosed spina bifida

SM Whitten, P Partridge, T Stojilkovic-Mikic, LS Chitty, CH Rodeck.
Fetal Medicine Unit at University College Hospital London, UK.

14.15-14.25 Characterization of urinary bladder smooth muscle function in fetal rats with retinoic acid induced myelomeningocele.

E. Danzer, D.A. Kiddoo, R.A. Redden, L. Robinson, A. Radu, S.A. Zderic, E.
Doolin, N.S. Adzick, A.W. Flake.
Childrens Hospital of Philadelphia, USA.

14.25-14.35 In utero repair of a neural tube defect in sheep

A.J. Eggink
Dept Obstet Gynecol, Radboud University Nijmegen, The Netherlands.

14.35-14.45 Myelomeningocele in fetal rabbit: effect of preterm delivery and corticosteroid treatment

García-Fontecha, C; Paz, P; Peiró, JL; Barceló, C; Torán, N; Oria, M; Rosal, M;
Aguirre, M; Martínez, V.
Fetal Surgery Program. Hospital Universitari Vall d'Hebrón. Barcelona. Spain.

14.45-14.55 Newly developed endoscopic forceps manipulator for intrauterine surgery

Chiba T, Yamashita H, Dohi T.
National Center for Children, Tokyo, Japan.

14.55-15.25 Coffee and The break

SESSION IX: Membranes and labor

Moderators: Sundberg Karin and Peter Soothill

15.25-15.35 Timing of amniocentesis

Sundberg K

Dept. of Fetal Medicine, Copenhagen University Hospital, Rigshospitalet, Denmark.

15.35-15.45 Surgical closure techniques of fetoscopic created fetal membrane defects in the mid-gestational pregnant rabbit model using amniocytes engineering.

Nikolaos A. Papadopulos, E. Brendle, U. Schillinger, A. Raith, S. Klotz, J. Henke, L. Kovacs, R. E. Horch, E. Biemer.

Dept. of Plastic & Reconstructive Surgery, & Institute of Experimental Oncology & Therapy Research, Technical University of Munich, Germany.

Dept. of Plastic & Hand Surgery, Friedrich -Alexander-University, Erlangen-Nuernberg, Germany.

15.45-15.55 Pre-emptive placement of pre-sealant. Prevention of membrane rupture.

R. Cortes, A. Wagner, Michael Harrison.

University of California San Francisco, USA.

15.55-16.05 The Two Layers of the Amnion: Origin and function.

Santolaya Joaquin, G. Mari. R. Wolf.

Wayne State University. Detroit. Michigan and Oklahoma University. Oklahoma, USA.

16.05-16.15 A histological study of fetoscopic membrane defects to document membrane healing.

L. Lewi, J. Sanin-Blair, Roland Devlieger, N. Toran, G. Verbist, J. Deprest, E. Gratacos.

Fetal Medicine Unit, Department of Obstetrics and Gynaecology, University Hospital, Leuven, Belgium.

16.15-16.25 Previaible premature pupture of membranes after first-trimester Chorionic Villus Sampling treated with amniopatch.

Borrell Antoni, A. Fortuny, T. Cobo, M. Palacio, F. Figueras, O. Coll. Hospital Clinic Barcelona Spain.

16.25-16.35 An hypothesis on the etiology of uterine contractions after fetal surgery in the human.

Pomini F, Scavo M, Noia G, Caruso A, Mancuso S.

Obstetrics & Gynecology. Università Cattolica del Sacro Cuore, Roma, Italia.

16.35-16.45 In-utero transplantation: Are mesenchymal stem cells better suited than CD34+ hemopoietic stem cells?

Wolfgang Holzgreve

Universitäts Frauenklinik, Basel, Schweiz.

16.45-16.55 Indicated induction of labor at term with an unfavorable cervix: immune system gene polymorphism associations.

Daniel W Skupski, G.S. Eglinton, L. Feingold, G. Sharma, G. Luo, M. Cabbad, S. Witkin.

Weill Medical College of Cornell University, New York Hospital Queens, The Brooklyn Hospital Centre, USA.

16.55-17.00 West Nile virus in pregnancy: a case study of second trimester infection

Daniel W. Skupski

Weill Medical College of Cornell University, New York. USA.

18.15 Departure for Kronborg Castle

Wednesday 25th May

08.00–09.00 Business meeting

IFMSS 2006 June 11-15 Mauna Kea, Hawaii

Michael Harrison

SESSION X: Fetal Stem cells

Moderators: Magnus Westgren M and Maria Michejda

09.00-09.10 Use of fetal liver progenitors for intrauterine cell therapy of hemophilia – a possibility for the future.

Westgren M, Bui TH, Ek S, Nava S, Nowak G, Tiblad E, Sumitran-Holgersson S.

Center of Fetal Medicine, Division of Transplantation Surgery, Karolinska University Hospital, Stockholm, Sweden

09.10-09.20 Patterns of engraftment in prenatal chimeras suggest critical role for class Ib (Qa-2) antigen-disparity in donor and recipient mice.

Aimen Shaaban.

Dept of Surgery, University of Wisconsin, Madison WI, USA

09.20-09.30 The coelomic approach: Long term chimerism after different technical and biological variables in the ovine model.

Noia G, Ligato S, Pomini F, Cesari E, Visconti D, Fortunato G, Bonanno G, Perillo A, Terzano M, Leone G, Mancuso S.

Obstetrics & Gynecology. Università Cattolica del Sacro Cuore, Roma, Italia.

09.30-09.40 Ex vivo expansion umbilical cord hematopoietic stem cell: perinatal factors, culture conditions and immune-phenotype.

Joaquin Santolaya Forgas and Giancarlo Mari

Wayne State University. Detroit. Michigan, USA.

09.40-09.50 Intrauterine transplantation of human fetal mesenchymal stem cells in a murine model of muscular dystrophy.

Chan Jerry, Waddington S, O'Donoghue K, Kurata H, Guillot P, Themis M, Morgan J, Fisk NM.

Experimental Fetal Medicine Group, Institute of Reproductive and Developmental Biology, Imperial College London, UK.

09.50-10.00 Fetal stem cells in regenerative medicine.

Maria Michejda

Georgetown University Medical Center, Washington, USA

10.00-10.10 Obstetrical Outcome After Preimplantation Genetic.

Norman Ginsberg, I. Tur-Kaspa , J. Ceislak-Janzen, S. Rechitsky, D. Pauling, A. Horwitz, A. Kuliev, Y. Verlinsky.

Reproductive Genetic Institute, Chicago, Illinois, USA.

10.10-10.40 Coffee and The break

SESSION XI: Fetal thrombocytopeni and fetal anemia

Moderators: Humphrey Kanhai and Ken Moise

10.40-10.50 Congenital disorders of Glycosylation (CDG) - - An autosomal recessive cause of intracranial hemorrhage.

Karen Blakemore, R. Cohn, J. Althaus, S. Petersen, J. Casella, C. McShane, S. Lee Woods, H. Fox, S. Boyadjiev.

Departments of Gynecology & Obstetrics and Pediatrics, and The Institute of Medical Genetics, The Johns Hopkins University School of Medicine, Baltimore, Maryland, USA

10.50-11.00 Fetal and neonatal alloimmune thrombocytopenia: A new international registry.

Dick Oepkes, E. van den Akker, A. Husebekk, H. Kanhai, M. Westgren.

Leiden University Medical Centre, The Netherlands, University Hospital of Northern Norway, Tromsø, Norway, Karolinska University Hospital, Stockholm, Sweden

11.00-11.10 A new RCT on treatment of fetal and neonatal alloimmune thrombocytopenia. The NOICH STUDY: Intravenous immunoglobulin in the treatment of FNAIT. A prospective, multicentre, randomized trial comparing 0.5 g and 1.0 g IvIG per kilogram bodyweight per week.

Eline van den Akker, D. Oepkes, A. Husebekk, M. Westgren, H. Kanhai.

.Leiden University Medical Centre, The Netherlands, University Hospital of Northern Norway, Tromsø, Norway, Karolinska University Hospital, Stockholm, Sweden

11.10-11.20 Does the obstetric history still play a role in the management of pregnancies with Rh-D alloimmunisation?

S. Van de Ven, F.J. Klumper, I.L. van Kamp, S. LeCessie, R.H. Meerman,
Dick Oepkes
Leiden University Medical Centre, The Netherlands.

11.20-11.30 The effect of antenatal corticosteroids on the middle cerebral peak velocityMCA-PV in fetuses at risk of anaemia from alloimmunisation.

J S Smoleniec.
FMU, Liverpool Health Service, Liverpool, Australia.

11.30-11.40 Fetal Anemia: Moving From Open Fetal Surgery to Non-invasive diagnosis of fetal anemia

G Mari, J Santolaya Forgas.
Wayne State University, Detroit, Michigan, USA.

11.40-11.50 Announcement of VandenBerghe-Storz Awards

11.50-12.00 Adjourn meeting

12.00-13.00 Lunch