

22nd Annual International Fetal Medicine and Surgery Society
Zermatt, Switzerland
April 27-30, 2003

IFMSS 2003 Scientific Abstract Presentation Schedule

Monday, April 28, 2003

08.00 - 08.05 h *Welcome and introduction Wolfgang Holzgreve*

08.05 - 10.15 h **Session 1**

Title: Prenatal Screening and Diagnosis

Chairs: Holzgreve W., Wilson D.

ETHICAL CRITERIA FOR THE DESIGN AND CONDUCT OF MATERNAL-FETAL RESEARCH

Chervenak FA., McCullough LB.

1) Weill Medical College of Cornell University, Presbyterian Hospital, New York, USA

2) Baylor College of Medicine, Center for Medical Ethics and Health Policy, New York, USA

DOWN SYNDROME MATERNAL SERUM SCREENING IN TWIN PREGNANCIES: DIAGNOSTIC VALUE IN ROUTINE PRACTICE

Muller F., Dreux S., Dupoizat H., Uzan S., Dubin MF., Oury JF., Digneon B., Dommergues M.

1) Hôpital Ambroise Paré, Boulogne

2) CHU Saint-Etienne

3) Hôpital Tenon, Paris

4) CHU, Nantes

5) Hôpital Robert Debré, Paris

6) CH Chambéry

7) Hôpital Necker Enfants Malades, Paris, France

FIRST TRIMESTER SONOGRAPHIC DETERMINATION OF FETAL GENDER BY THE MEASUREMENT OF THE ANGLE OF THE GENITAL TUBERCLE

Bunduki V., Peralta CFA., Brizot ML., Abdalla G., Dela Vega AM., Zugaib M.

Fetal Medicine Unit, University of São Paulo, Brazil

SCREENING FOR FETAL DOWN SYNDROME USING ULTRASONOGRAPHIC PARAMETERS

Bunduki V., Ruano R., Peralta CFA., Miguelez J., Lopes MAB., Yoshizaki CT., Zugaib M.

Fetal Medicine Unit, University of São Paulo, Brazil

INCREASED NUCHAL TRANSLUCENCY AND NORMAL KARYOTYPE: A NEW CLINIC FOR COMPREHENSIVE FOLLOW-UP?

Goncé A., Borrell A., Fernandez-Beroiz P., Potet F., Fortuny A., Cararach V.

Institut Clinic Obstetricia, Barcelona, Spain

ASSESSMENT OF FETAL RISK FOR TRISOMY 21 COMBINING ULTRASOUND AND BIOCHEMISTRY AT INDIVIDUALLY OPTIMAL GESTATION AGES

Borell A., Fortuny A.

Prenatal Diagnosis Unit, Hospital Clinic, University of Barcelona, Spain

FIRST TRIMESTER PRENATAL DIAGNOSIS OF FRONTO-NASAL DYSPLASIA

Johnson A., Goncalves L., Sleurj E., Devers P., Kress C., Romero R.

Wayne State University, USA

FETAL DNA IN MATERNAL PLASMA IN TWIN PREGNANCIES

Cremonesi L., Galbiati S., Vassallo A., Gambini D., Ferrari A., Viora E., Pagliano M., Restagno G., Calza S., Ferrari M., Smid M.

- 1) Unit of Genomics for Diagnosis of Human Pathologies
- 2) Department of Obstetrics and Gynecology, IRCCS H. San Raffaele, Milan, Italy
- 3) Centro di Ecografia e Diagnosi Prenatale, Ospedale S. Anna, Torino, Italy
- 4) Cattedra A, Università di Torino, Italy
- 5) Dipartimento di Patologia Clinica, A.O.O.I.R.M.-S. Anna, Torino, Italy
- 6) Sezione di Statistica Medica e Biometria, Dipartimento di Scienze Biomediche e Biotecnologie, Università di Brescia, Italy
- 7) Diagnostica e Ricerca S. Raffaele S.p.A., H. San Raffaele, Milan, Italy

FETOMATERNAL TRAFFICKING OF FETAL MESENCHYMAL STEM CELLS

O'Donoghue K., Chan J., de la Fuente J., Kumar S., Sandison A., Anderson J., Roberts I., Fisk NM.
Imperial College, London, UK

FETAL CELLS AND DNA IN MATERNAL CIRCULATION: NEWS ON SINGLE GENE DIAGNOSIS

Holzgreve W., Zhong XY., Hahn S.

Department of Obstetrics and Gynecology, University of Basel, Switzerland

COMPLETE AV BLOCK WITH AND WITHOUT STRUCTURAL HEART DISEASE: PREGNANCY MANAGEMENT AND IMPACT ON OUTCOME

Jaeggi ET., Fouron JC., Ryan G., Smallhorn J., Hornberger LK.

- 1) The Hospital for Sick Children, Toronto, Canada
- 2) Sainte-Justine Hospital, Montreal, Canada
- 3) Mount Sinai Hospital, Toronto, Canada

FETOSCOPIC DIAGNOSIS OF KLIPPEL-TRENAUNAY SYNDROME PRESENTING AS SUSPECTED AMNIOTIC BANDS

Johnson A., Devers D., Wagner A., Treadwell MC., Conscenti G., Romero R.

Wayne State University, USA

PRENATAL DIAGNOSIS OF INTERSEX: WHAT IS TO BE DONE?

Bargy F., Morel-Bouvattier C., Beaudoin S.

Service de Chirurgie Viscérale, Hôpital Saint Vincent de Paul, Paris, France

10.45 - 12.15 h Session 2

Title: Invasive Procedures & Surgical Technology

Chairs: Harrison M., Nicolini U.

SAFETY OF FETAL BLOOD SAMPLING BY CORDOCENTESIS IN FETUSES WITH SINGLE UMBILICAL ARTERIES

Abdel-Fattah S., Bartha J., Denbow M., Kyle P., Soothill P.

St Michael's Hospital, Bristol, UK

SECOND AND THIRD-TRIMESTERS THERAPEUTIC TERMINATIONS OF PREGNANCY IN CASES WITH COMPLETE PLACENTA PREVIA – DOES FETICIDE DECREASE POST DELIVERY MATERNAL HEMORRHAGE?

Ruano R., Dumez Y., Cabrol D., Dommergues M.

Hôpital Necker and Hôpital Cochin, AP-HP and Université Paris V, France

22nd Annual Meeting in Zermatt, Switzerland, April 27-30, 2003
International Fetal Medicine and Surgery Society (IFMSS)

DOES SIZE MATTER? A RANDOMISED EXPERIMENTAL COMPARISON OF 23 G VERSUS 22 G NEEDLE FOR INVASIVE FETAL PROCEDURES

Devlieger R., Oepkes D.

Fetal Medicine Unit, Dept. of Obstetrics, Leiden University Medical Centre, Leiden, The Netherlands

FETAL SURGERY: HIDDEN MORTALITY

Farmer D.

UCSF, Fetal Treatment Center, San Francisco, USA

A NEW INFUSION PUMP FOR FETOSCOPY

Harrison M., Farmer D., Lee H., Hirose S.

UCSF, Fetal Treatment Center, San Francisco, USA

HARMONIC SCALPEL IS AN EFFECTIVE TOOL FOR HYSTEROTOMY IN OPEN FETAL SURGERY

Peiro JL., Toran N., Ginc C., Soldado F., Moll X., Garcia-Arnas F., Martines Ibanez V.

1) Fetal Surgery Unit, Department of Pediatric Surgery, Hospital Vall d'Hebron, Barcelona, Spain

2) Department of Pathology, Hospital Vall d'Hebron, Barcelona, Spain

3) Veterinary Faculty, Universitat Autònoma de Barcelona, Spain

*APPLYING THE ZEUS ROBOTIC SURGERY SYSTEM TO FETAL SHEEP SURGERY: PRELIMINARY WORK

Knight CG., Lorinez A., Johnson A., Gidell K., Langenburg SE., Klein MD.

Children's Hospital of Michigan, USA

THE UPTAKE OF DESFLURANE IN FETAL SHEEP

Schwarz U., Galinkin JL., Biard JM., Hedrick HJ., Davey M., Danzer E., Rajendra A., Preti G., Kurth CD., Flake AW., Adzick NS. Greeley WJ.

1) Dept. Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia, USA

2) Dept. of Surgery, The Children's Hospital of Philadelphia, USA

3) Monell Institute, Philadelphia, USA

MINIMUM ALVEOLA CONCENTRATION AND ANESTHETIC BLOOD GAS PARTITION COEFFICIENT OF DESFLURANE IN PREGNANT SHEEP

Schwarz U., Galinkin JL., Biard JM., Danzer E., Rajendra A., Davey M., Preti G., Kurth CD., Flake AW., Adzick NS. Greeley WJ.

1) Dept. Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia, USA

2) Dept. of Surgery, The Children's Hospital of Philadelphia, USA

3) Monell Institute, Philadelphia, USA

13.30 - 15.30 h Session 3

Title: Chest

Chairs: Trudinger B., Johnson MP.

FETOSCOPIC TRACHEAL OCCLUSION FOR SEVERE FETAL CONGENITAL DIAPHRAGMATIC HERNIA

Harrison M., Keller R., Harood S., Kitterman J., Sandberg P., Farmer D., Lee H., Filly R., Farrell J.

UCSF, Fetal Treatment Center, San Francisco, USA

TEMPORARY TRACHEAL OCCLUSION IN FETAL SHEEP WITH SEVERE LUNG HYPOPLASIA DOES NOT IMPROVE LUNG FUNCTION: IS TO FOR CDH EVER INDICATED?

Flake AW., Davey MG., Hedrick HL., Adzick NS.

Children's Hospital of Philadelphia, USA

ENHANCEMENT OF BALLOON-BASED FETAL TRACHEAL OCCLUSION WITH A RAPIDLY POLYMERIZING HYDROGEL

Chang R., Komura M., Andreoli S., Jennings R., Wilson J., Fauza D.

Department of Surgery, Children's Hospital, Boston, USA

EX UTERO INTRAPARTUM THERAPY (EXIT) IN THE MANAGEMENT OF CONGENITAL LUNG LESIONS

Hedrick HL., Crombleholme TM., Flake AW., Johnson MP., Wilson RD., Howell LJ., Adzick NS.

Children's Hospital of Philadelphia, USA

SURGERY FOR ASYMPTOMATIC CONGENITAL CYSTIC ADENOMATOID MALFORMATIONS IN EARLY INFANCY

Crombleholme TM., Keswani SG., Flake AW., Hedrick HL., Howell LJ., Katz AB., Stable L., Adzick NS.

The Children's Hospital of Philadelphia, USA

PULMONARY HYPERTENSION SECONDARY TO FETAL SYSTEMIC ARTERIO-VEINUS FISTULA INCREASES SURFACTANT STORAGE THROUGH ANP MEDIATED-MECHANISM

Benachi A., Jouannic JM., Chailley-Heu B., Barlier-Mur AM., Dumez Y., Bourbon JR.

1) Maternité, Hôpital Necker-Enfants Malades, Paris, France

2) Faculté de Médecine, Créteil, France

A RANDOMIZED TRIAL OF FETOSCOPIC TRACHEAL OCCLUSION FOR SEVERE FETAL CONGENITAL DIAPHRAGMATIC HERNIA

Harrison M., Keller R., Hawgood S., Kitterman J., Sandberg P., Farmer D., Lee H., Filly R., Farrell J., Albanese C.

UCSF, Fetal Treatment Center, San Francisco, USA

THREE-DIMENSIONAL SONOGRAPHIC ASSESSMENT OF FETAL LUNG VOLUME AS PROGNOSTIC FACTOR IN ISOLATED CONGENITAL DIAPHRAGMATIC HERNIA

Ruano R., Benachi A., Joubin L., Aubry MC., Talabar JC., Dumez Y., Dommergues M.

Maternité+Service de Biostatistique, Hôpital Necker-Enfants Malades, Paris, France

FETAL TISSUE ENGINEERING FROM MESENCHYMAL AMNIOCYTES: DIAPHRAGMATIC RECONSTRUCTION

Kaviani A., Fuchs JR., Oh J-T., LaVan D., Udagawa T., Jennings RW., Wilson JM., Fauza D.

Department of Surgery, Children's Hospital, Boston, USA

CARTILAGE ENGINEERING FROM UMBILICAL CORD BLOOD MESENCHYMAL PROGENITOR CELLS

Fuchs JR., Hannouche D., Terada S., Zand S., Vacanti JP., Fauza D.

Department of Surgery, Children's Hospital, Boston, USA

THE SILVER TRAIL

Harrison M.

UCSF, Fetal Treatment Center, San Francisco, USA

Tuesday, April 29, 2003

08.00 - 09.00 h Session 4a

09.00 - 10.00 h Session 4b

Title: Central Nervous System/Abdomen
Chairs: Adzick S., Bruner J.

INTRAUTERINE REPAIR OF SPINA BIFIDA: PREOPERATIVE PREDICTORS OF SHUNT-DEPENDENT HYDROCEPHALUS

Bruner J., Tulipan N., Reed G., Davis G., Bennett K., Luker K., Dabrowiak M.

- 1) Depts. of Ob-Gyn, Pediatric Neurosurgery, Vanderbilt University, Nashville, USA
- 2) Div. Of Preventive & Behavior Medicine, University of Massachusetts, Worcester USA

UPDATE ON THE "INTRAUTERINE REPAIR OF SPINA BIFIDA" NIH-TRIAL

Bruner J., Adzick S., Harrison M.

- 1) Vanderbilt University, Nashville, USA
- 2) The Children Hospital Philadelphia, USA
- 3) UCSF, Fetal Treatment Center, San Francisco, USA

FETAL HEAD GROWTH FOLLOWING IN UTERO REPAIR OF MYELOMENINGOCELE

Danzer E., Johnson M., Wilson RD., Hedrick H., Flake A., Crombleholme T., Schwarz U., Sutton L., Adzick NS.

The Children's Hospital of Philadelphia, USA

LEG FUNCTION IN INFANTS WHO UNDERWENT IN UTERO FETAL MYELOMENINGOCELE CLOSURE

Johnson MP., Rintoul N., Williams J., Wilson RD., Flake AW., Crombleholme TM., Hedrick HL., Sutton LN., Howell LJ., Adzick NS.

The Children's Hospital of Philadelphia, USA

ISOLATED SPINA BIFIDA APERTA, PRENATAL PROGNOSTIC FACTORS AND POSTNATAL OUTCOME IN 57 CASES

Peralta CFA., Bunduki V., Santos E., Plese JPP., Zugaib M.

Fetal Medicine Unit + Neurosurgery Dept., University of São Paulo, Brazil

THE EFFECT OF IUGR AND PREMATUREITY ON THE OUTCOME OF INFANTS WITH GASTROSCHISIS

P. Puligandla, A. Janvier, H. Flageole, E. Mok, S. Bouchard, J-M. Laberge

- 1) Montreal Children's Hospital, McGill University, Canada
- 2) Hôpital Ste-Justine, Université de Montréal, Canada

THE EFFECT OF GROWTH RESTRICTION ON RELATIVE CEREBRAL METABOLITE CONCENTRATIONS IN CHICK EMBRYOS MEASURED BY MAGNETIC RESONANCE SPECTROSCOPY

Peebles D., Dixon J., Thornton J., Priest A., Cady E., Rodeck C.

University College London, UK

PROSPECTIVE LONGITUDINAL ULTRASOUND ASSESSMENT OF INTRACEREBRAL BIOMETRIC PARAMETERS IN NORMAL AND HYPOXIC GROWTH RETARDED FETUSES

Perrotin F., Wagner A., Giraudeau B., Paillet C., Arbeille Ph.

- 1) Dept of Obstetrics & Gynecology, Bretonneau University Hospital, Tours, France
- 2) Inserm U316, Dept of Ultrasound, Trousseau University Hospital, Tours, France
- 3) Dept of Biostatistics, Bretonneau University Hospital, Tours, France

PRENATAL IDENTIFICATION OF ESOPHAGEAL ATRESIA: THE ROLE OF ULTRASONOGRAPHY FOR EVALUATION OF FUNCTIONAL ANATOMY

Shulman A., Mazkeret R., Zalel Y., Kuint J., Lipitz S., Avigad I., Achiron R.

The Chaim Sheba Medical Center, Tel-Hashomer, Israel

INFLAMMATION PROFILE IN GASTROSCHISIS: AN OVERVIEW

Guibourdenche J., de Lagausie P., Burc L., Ferkdadji L., Voluménie JL., Vuillard E., Sibony O., Blot P., Aigrain Y., Saizou C., Peuchmaur M., Berrebi D., Sterkers G., Oury JF., Luton D.

Department of Perinatology, Robert Debré Hospital, Paris, France

AMNIOTIC FLUID EXCHANGE FOR GASTROSCHISIS

Bruner JP., Luton D., Chescheir N.

- 1) Vanderbilt University, Nashville, USA
- 2) Maternité de l'Hôpital Robert Debre, Paris, France
- 3) University of North Carolina, Chapel Hill, USA

DO AMNIOTIC FLUID MATRIX METALLOPROTEINASE 1 AND 3 REFLECT THE CONDITION OF THE BOWEL IN FETAL GASTROSCHISIS?

Haeusler MCH., Fasching G., Mayr J., Schimpl G., Haas J., Puerstner P.

Department of Obstetrics and Gynecology and Department of Pediatric Surgery, University of Graz, Austria

MEGACYSTIC MICROCOLON INTESTINAL HYPERPERISTALTIC SYNDROME

Muller F.

Hôpital Ambroise Paré, Paris, France

INTRA-UTERINE OPENING AND CLOSURE OF THE POSTERIOR LUMBAR VERTEBRAL COLUMN IN FETAL LAMB: NEUROPATHOLOGICAL FINDINGS

van den Berg P., Lammens M., Crevels A., Feitz W., Grotenhuis A.

Department of Obstetrics and Gynaecology, University Medical Centre Nijmegen, The Netherlands

10.30 - 12.20 h Session 5

Title: Cardiovascular & Renal
Chairs: Laberge JM., Dommergues M.

12.20 h Group photo in front of the hotel (Stairways at entrance), afterwards lunch

FETAL ARRHYTHMIA: FETAL ECG CLARIFIES THE DIAGNOSIS

Taylor MJO., Kumar S., Pasquini L., Wimalasundera R., Fisk NM., Abrams D., Till J., Smith MJ., Thomas MJ. Gardiner HM.

- 1) Royal Brompton Hospital, London UK
- 2) Queen Charlotte's Hospital, London UK
- 3) Signal Processing Group, QinetiQ, Malvern, UK

RESULTS OF THE PRENATAL MANAGEMENT OF FETUSES WITH TRANSPORTATION OF THE GREAT ARTERIES IN ONE SINGLE TERTIARY CENTER, A CONSECUTIVE SERIES OF 130 CASES

Jouannic JM., Bonnet D., Gavard L., Fermont L., Le Bidois J., Parat S., Sidi D., Dumez Y.

- 1) Maternité+Service de Cardiologie Pédiatrique Hôpital Necker-Enfants Malades, Paris, France
- 2) Institut de Puériculture de Paris, France

FETAL CARDIAC DOPPLER TISSUE IMAGING AND ECG SIGNALS IN MATERNAL DIABETES

Gardiner HM (1,2), Pasquini L (2) Taylor MJO (2), Wolfenden J (1,2), Li W (1), Henein M (1)

1) Faculty of Medicine, Imperial College, Royal Brompton, London, UK

2) Queen Charlotte's Hospitals, London, UK

INTERVENTIONAL VALVULOPLASTY – CASE SELECTION AND OUTCOME

Gardiner HM., Franklin R., Loughna PV., Daubeney PE., Rigby ML., Chaturvedi R., Kumar S.

1) Faculty of Medicine, Imperial College, Royal Brompton, London, UK

2) Queen Charlotte's Hospitals, London, UK

MYOCARDIAL AUGMENTATION THROUGH FETAL TISSUE ENGINEERING

Fuchs JR., Nasser BA., Zhang HL., Kaviani A., Vacanti JP., Fauza D.

Department of Surgery, Children's Hospital, Boston, USA

FETAL URINALYSIS IN BILATERAL UROPATHIES: POST NATAL RENAL FUNCTION 10-16 YEARS LATER

Dommergues M., Lorin J., Muller F.

Hôpital Ambroise Paré and Hôpital Necker, AP-HP and Université Paris V, France

LONG-TERM OUTCOMES IN CHILDREN TREATED BY PRENATAL VESICOAMNIOTIC SHUNTING FOR OBSTRUCTIVE UROPATHY

Biard JM., Johnson MP., Carr M., Wilson RD., Crombleholme TM., Flake AW., Hedrick HL., Howell LJ., Adzick NS.

The Children's Hospital of Philadelphia, USA

14.00 - 15.30 h Session 6

16.00 - 17.30 h Session 7

Title: Multiple Gestation

Chairs: Evans ME., Fisk N.

*MATERNAL ANEMIA AND HYPOPROTEINEMIA COMPLICATES SEVERE PREVIABLE TWIN-TWIN TRANSFUSION SYNDROME

De Lia J., Pircon RA., Worthington D., Packman GS.

Prenatal Assessment Center, St. Joseph Regional Medical Center, Milwaukee, Wisconsin, USA

*LATENCY OF AEDF IS PROLONGED IN MONOCHORIONIC TWINS

Vanderheyden T., Pasquini L., Fichera A., Tan T., Wee L., Frusca F., Fisk NM.

Centre for Fetal Care, Queen Charlotte's and Chelsea Hospital, Imperial College, London, UK

INTERSTITIAL LASER FOR VASCULAR OCCLUSION IN TUMOURS AND MONOCHORIONIC TWINS

Vanderheyden T., Wee L., Tan T., Wimalasundera R., Taylor M., Kumar S. Fisk NM.

Queen Charlotte's and Chelsea Hospital, Imperial College London, UK

*DICHORIONIC TRIPLET PREGNANCIES PROPOSED AS A MODEL TO STUDY THE PATHOGENESIS OF FETAL MALFORMATIONS

Nizard J., Vollaard ES, Arabin B.

1) Department of Perinatology, Isala Clinics, 8025 AB Zwolle, The Netherlands

22nd Annual Meeting in Zermatt, Switzerland, April 27-30, 2003
International Fetal Medicine and Surgery Society (IFMSS)

2) Clara Angela Foundation, Center for Research and Development, Witten, Germany

*INCOMPLETE LASER TREATMENT IN TWIN-TO-TWIN TRANSFUSION SYNDROME: HOW TO DIAGNOSE AND TREAT PRE- AND POSTNATALLY

Nizard J., Bergenhenegouwen L., Arabin B.

1) Department of Perinatology, Isala Clinics, 8025 AB Zwolle, The Netherlands

2) Clara Angela Foundation, Center for Research and Development, Witten, Germany

*COMPARING THREE DIFFERENT TYPES OF MONITORING THE CERVIX IN TRIPLET PREGNANCIES: NO SCREENING VERSUS SINGLE SCREENING AT 24 WEEKS VERSUS LONGITUDINAL SCREENING FROM 16 WEEKS ONWARDS

Nizard J., van Gaever C., Arabin B.

1) Department of Perinatology, Isala Clinics, 8025 AB Zwolle, The Netherlands

2) Clara Angela Foundation, Center for Research and Development, Witten, Germany

*AMNIOCENTESIS FOR TWIN PREGNANCIES; IS ALPHA FETOPROTEIN USEFUL IN CONFIRMING THAT THE TWO SACS WERE SAMPLED?

Delisle MF., Brosseuk L., Wilson RD.

Children's and Women's Health Centre of British Columbia, Vancouver, Canada

ARTERIO-ARTERIAL ANASTOMOSIS INDEPENDENTLY PREDICTS SURVIVAL OUTCOME AND IMPROVES STAGING IN TTTS

Tan TYT., Taylor MJO., Wee LY., Vanderheyden T., Fisk NM.

Imperial College London, UK

ARTERIO-ARTERIAL ANASTOMOSIS THROMBOSIS MANIFESTING AS ACUTE TWIN-TWIN TRANSFUSION SYNDROME

Tan TYT., Denbow ML., Cox PM., Talbert D., Fisk NM.

1) Imperial College London, UK

2) Birmingham Women's Hospital, Birmingham, UK

*PSEUDO-ARTERIO-ARTERIAL-ANASTOMOSIS AS AN (ENDOSCOPIC) ARTIFACT OF LASER TREATMENT IN TWIN-TWIN TRANSFUSION SYNDROME

Taylor MJA., Talbert D., Tan TYT., Fisk NM.

Queen Charlotte's and Chelsea Hospital and Institute of Reproductive and Developmental Biology, Imperial College London, UK

TWIN TO TWIN TRANSFUSION SYNDROME: NOT ONLY PREMATURE MATTERS

Gagnon A., Alkhotani A., Huckell C., Delise MF., Oslovich H.

Children & Women's Health Centre of British Columbia, Vancouver Canada

SELECTIVE LASER ABLATION FOR SEVERE TTTS UNRESPONSIVE TO AMNIO REDUCTION

Farmer D., Sandberg P., Machin G., Sydorak R., Lee H., Harrison M., Feldstein V.

UCSF, Fetal Treatment Center, San Francisco, USA

THERMAL VASCULAR OCCLUSION TECHNIQUES FOR SELECTIVE TERMINATION IN COMPLICATED MULTIFETAL PREGNANCIES, WSU UPDATE

Johnson A., Gilbert AD., Russel E., Hassan S., Hendler I., Bujold E., Leach R.

Wayne State University, USA

*LONG-TERM NEURODEVELOPMENTAL OUTCOME IN TWIN-TO-TWIN TRANSFUSION SYNDROME (TTS)

Lopriore E., Nagel H., Vandenbussche R., Walther F.

Leiden University Medical Centre, The Netherlands

ENDOSCOPIC LASER COAGULATION OF VASCULAR ANASTOMOSES IN ACAR

Hecher K., Huber A., Zikulnig L., Diehl W., Hackelöer BJ.

Dept. of Prenatal Diagnosis & Therapy, AK Barmbek, Hamburg, Germany

SELECTIVE MANAGEMENT OF TRAP SEQUENCE

Weisz., B., Chayen B., Peltz R., Achiron R., Lipitz S.

Sheba Medical Center, Tel-Hashomer, Israel

RADIOFREQUENCY CATHETER ABLATION IN ACARDIAC TWIN

Sugawara J., Murotsuki J., Senoo M., Kimura Y., Okamura Kunihiro

Tohoku University Graduate School of Medicine Sendai, Japan

Wednesday, April 30, 2003

08.00 - 09.40 h Session 8

Title: Cellular Therapeutics and Gene Therapy

Chairs: Flake A., Surbek D.

IN UTERO STEM CELL TRANSPLANTATION - AN UPDATE

Flake AW.

Children's Hospital of Philadelphia, USA

IMMUNOLOGICAL PROPERTIES OF HUMAN FETAL MESENCHYMAL STEM CELLS

Westgreen M., Bui TH.

Center for Fetal Medicine, Karolinska Institute, Huddinge University Hospital, Stockholm, Sweden

SHORT-TERM HOMING AND ENGRAFTMENT OF AUTOLOGOUS VERSUS ALLOGENEIC IN-UTERO TRANSPLANTATION IN THE SHEEP MODEL

Surbek D., Schoeberlein A., Dudler L., Rusterholz C., Hahn S., Holzgreve W.

Department of Obstetrics and Gynecology, University of Basel, Switzerland

PRENATAL TRANSPLANTATION AND COELOMIC CAVITY: EVALUATION OF PRENATAL AND POSTNATAL ENGRAFTMENT

Noia G., Monego G., Zelano G., Bonanno G., Rutella S., Michetti F., Leone G., Mancuso S.

Catholic University of the Sacred Heart, Rome, Italy

PRENATAL TRANSPLANTATION AND COELOMIC CAVITY: THE BACKGROUND OF THE APPROACH

Noia G., Monego G., Zelano G., Bonanno G., Rutella S., Michetti F., Leone G., Mancuso S.

Catholic University of the Sacred Heart, Rome, Italy

SUCCESSFUL EMBRYONIC STEM CELL TRANSPLANTATION IN A CASE OF SCID

Hansmann M., Westgren M.

- 1) Universität Bonn, Germany
- 2) Karolinska University Stockholm, Sweden

NON-EXPANDED PRIMARY LUNG AND BONE MARROW-DERIVED MESENCHYMAL CELLS PROMOTE THE ENGRAFTMENT OF UMBILICAL CORD BLOOD-DERIVED CD34 CELLS IN NOD/SCID MICE

in't Anker PS., Noort WA., Scherjon SA., Kruisselbrink AB., Beekhuizen W., Fibbe WE., Kanhai HHH.

Leiden University Medical Centre, The Netherlands

ISOLATION OF MESENCHYMAL STEM CELLS FROM HUMAN SECOND- AND THIRD-TRIMESTER UMBILICAL CORD BLOOD

in't Anker PS., Kleijburg-van der Keur C., Noort WA., Beekhuizen W., Kanhai HHH., Fibbe WE., Scherjon SA

Leiden University Medical Centre, The Netherlands

SUCCESSFUL TRANSDUCTION OF FETAL AIRWAYS AFTER ULTRASOUND GUIDED DELIVERY OF ADENOVIRAL VECTORS TO THE FETAL SHEEP TRACHEA

Peebles D., David A., Gregory L., Themis M., Cook T., Knapton H., Miah M., Nivsarkar M., Coutelle C., Rodeck C.

- 1) Royal Free & University College London, UK
- 2) Imperial College School of Medicine, London, UK

*IN VITRO LESION REPAIR BY HUMAN AMNION EPITHELIAL AND MESENCHYMAL CELLS

Bilic G., Ochsenbein-Kölble N., Hall H., Huch R., Zimmermann R.

- 1) Department of Obstetrics, University Hospital Zurich
- 2) Institute for Biomedical Engineering ETH + University of Zurich

*HUMAN FETAL TRACHEA XENOGRAFTS RECAPITULATE NORMAL TRACHEAL DEVELOPMENT: IMPLICATIONS FOR FETAL GENE THERAPY USING PSEUDOTYPED ADENO-ASSOCIATED VIRUSES

Keswani SG., Katz AB., Lim FY., Zoltick P., Kobinger GP., Weiner DJ., Radu A., Wilson JM., Crombleholme TM.

The Children's Hospital of Philadelphia, USA

ONTOGENY OF STEM CELLS AND TRANSPLANTATION

Michejda M.

Georgetown University Medical Center, Washington D.C., USA

10.20 - 12.00 h Session 9

Title: Alloimmune Disease and Infection

Chairs: Rodeck C., Moise K.

SINGLE CENTRE EXPERIENCE OF PRENATAL MANAGEMENT OF ALLOIMMUNE THROMBOCYTOPENIA AND IMPLEMENTING A NEW PROTOCOL

Rodeck C.

Department of Ob/Gyn., RFUCMS, London, UK

FETAL SERUM ALPHA-FETOPROTEIN IN ALLOIMMUNISED PREGNANCIES

Bartha J., Harrison G., Kyle P., Soothill P.

St Michael's Hospital, Bristol, UK

NEONATAL OUTCOME AFTER AVOIDING CORDOCENTESIS OR INTRAUTERINE TRANSFUSION IN RED BLOOD CELL- IMMUNISED PREGNANCIES AT RISK OF FETAL ANAEMIA, BASED ON A NORMAL MIDDLE CEREBRAL ARTERY DOPPLER FLOW VELOCITY

Abdel-Fattah S., Soothill P., Hunter A., Bartha J., Kyle P.

St Michael's Hospital, Bristol, UK

*THE PHYSIOLOGICAL BASIS OF LILEY'S INDEX: AMNIOTIC FLUID/FETAL BLOOD RATIO OF BILIRUBIN IN NON-HYDROPICT FETUSES

Vandenbussche FPHA., Pasman SA.

Leiden University Medical Centre, The Netherlands

*THE PHYSIOLOGICAL BASIS OF LILEY'S INDEX: AMNIOTIC FLUID/FETAL BLOOD RATIO OF BILIRUBIN IN HYDROPICT FETUSES

Pasman SA., Sikkel E., Vandenbussche FPHA.

Leiden University Medical Centre, The Netherlands

EVOLUTION OF TREATED INFECTED FOETUS AFTER VZV DURING PREGNANCY

Mirlesse V., Costa JM., Jacqz-Aigrin E., Daffos F.

Institut de Puériculture et Périnatalogie, Paris, France

PRENATAL DIAGNOSIS OF VZV DURING PREGNANCY

Mirlesse V., Magny JF., Delhommeau F., Daffos F.

Institut de Puériculture et Périnatalogie, Paris, France

AGE-DEPENDENT VARIATIONS IN ENDOTHELIAL CELL FUNCTION

Olutoye OO., Zhu X., Cass DL., Smith CW.

Baylor College of Medicine, Houston, Texas, USA

FETAL ATHEROTHROMBOSIS - ABNORMAL UMBILICAL ARTERY DOPPLER

Trudinger BJ.

University of Sydney, Westmeed Hospital, Australia

PRETERM PROM - A FETAL VASCULOPATHY

Trudinger BJ.

University of Sydney, Westmeed Hospital, Australia

12.10 - 13.00 h Business Meeting & Young Investigator's Award Presentation with lunch