



**37th International Fetal Medicine and Surgery Society  
Annual Meeting  
Detailed Scientific Programme**

**Wednesday, 8th August 2018**

<b>07:00 AM</b>	<b>Editorial Meeting of the Fetal Diagnosis and Therapy Journal: to be held in the Sadewa Room</b>	Editorial Board Members
<b>07:50 AM</b>	<b>All delegates to gather in the Conference Ballroom: Puri Kencana Grand Ballroom</b>	All Delegates
<b>08:00 AM</b>	<b>Opening Remarks</b>	Mahesh Choolani / Mark Evans

**Twins: Session 1 (TWI-01)**

<b>Chairpersons: Ross Welch and Tuangsit Wataganara</b>			
<b>08:30 AM</b>	001-01-TWI-01-01	<b>Improved Antenatal Prediction of Twin Anemia Polycythemia Sequence by Delta Middle Cerebral Artery Peak Systolic Velocity – A New Antenatal Classification System</b>	Femke Slaghekke
<b>08:40 AM</b>	002-01-TWI-01-02	<b>Taps Trial: Fetoscopic Laser Surgery vs. Standard Care for Twin Anaemia-Polycythemia Sequence – An Open Label Randomized Controlled Trial</b>	Femke Slaghekke
<b>08:50 AM</b>	003-01-TWI-01-03	<b>Is the distance travelled (DT) to a Fetal Center associated with adverse outcomes in patients with twin-twin transfusion syndrome (TTTS) undergoing fetoscopic laser surgery (FLS)?</b>	Eric Bergh
<b>09:00 AM</b>	004-01-TWI-01-04	<b>Effect of intra-amniotic fluid pressure from polyhydramnios on cervical length in patients with twin-twin transfusion syndrome (TTTS) undergoing fetoscopic laser surgery (FLS)</b>	Eric Bergh
<b>09:10 AM</b>	005-01-TWI-01-05	<b>Implementation of a Fetoscopic Laser Treatment Program for Twin Twin Transfusion Syndrome in Developing Countries. A Proof of Concept Study</b>	Gustavo Fonseca
<b>09:20 AM</b>	006-01-TWI-01-06	<b>Clinical Outcomes following Fetal Therapy: The Experiences from an Emerging Fetal Therapy Center</b>	Sun Luming
<b>09:30 AM</b>	007-01-TWI-01-07	<b>Hormone Levels in the Amniotic Fluid of Twin-Twin Transfusion Syndrome (TTTS) and its Association with Extreme Preterm Delivery</b>	Mallory Hoffman
<b>09:40 AM</b>	008-01-TWI-01-08	<b>Neurodevelopmental Outcomes at 3 years in Survivors Who Underwent Fetoscopic Laser Photocoagulation for Twin-Twin Transfusion Syndrome</b>	Haruhiko Sago
<b>09:50 AM</b>	009-01-TWI-01-09	<b>The Effects of the Solomon Technique for Fetoscopic Laser Photocoagulation to Treat Twin-Twin Transfusion Syndrome</b>	Haruhiko Sago
<b>10:00 AM</b>	010-01-TWI-01-10	<b>Calculating Observed-to-Expected Total Lung Volume in CDH Fetuses in Twin Gestation: Is There a Better Way?</b>	Erin Perrone
<b>10:10 AM</b>	011-01-TWI-01-11	<b>Inter-Twin Hemoglobin Difference at Birth in Uncomplicated Monochorionic Twins in Relation to Placenta</b>	Zhao Depeng

**10:20 AM****BEVERAGE BREAK****Twins: Session 2 (TWI-02)****Chairpersons: Haruhiko Sago and Larry Rand**

<b>10:40 AM</b>	012-01-TWI-02-01	<b>Chromosomal Abnormalities and Chromosomal Microarray Analysis in Twins with Structural Anomalies</b>	Li Lin
<b>10:50 AM</b>	013-01-TWI-02-02	<b>A novel Fetoscopic finding of poor prognosis in Selective Fetal Growth Restriction type II</b>	Enrique Gil Guevara
<b>11:00 AM</b>	014-01-TWI-02-03	<b>Conjoined Twins: "sharing" our prenatal imaging experience</b>	Amy Mehollin-Ray
<b>11:10 AM</b>	015-01-TWI-02-04	<b>Combination of "markers" and the Consequent Importance of Fetal Abdominal Circumference (AC) in the First Trimester to Predict Complications Specific to Monochorionic Twin Pregnancies</b>	Prathima Radhakrishnan
<b>11:20 AM</b>	016-01-TWI-02-05	<b>Triplet Pregnancies reduced to Twins and Singletons : Comparison of Outcomes and Role of Cervical Length Assessment</b>	Prathima Radhakrishnan
<b>11:30 AM</b>	017-01-TWI-02-06	<b>Outcome of TRAP Sequence Diagnosed Prenatally at a Single Centre</b>	Prathima Radhakrishnan
<b>11:40 AM</b>	019-01-TWI-02-08	<b>Microwave Ablation For Selective Fetal Reduction In Complicated Monochorionic Multiple Pregnancies</b>	Yuan Pengbo
<b>11:50 AM</b>	020-01-TWI-02-09	<b>Moving toward early risk prediction of Twin to Twin Tranfusion Syndrome</b>	Larry Rand
<b>12:00 PM</b>	021-01-TWI-02-10	<b>Effect of Trocar Entry Location in Twin Twin Transfusion Syndrome (TTTS) on Gestational Age at Delivery</b>	Ramesha Papanna
<b>12:10 PM</b>	022-01-TWI-02-11	<b>Tips and Tricks to performing Radio-Frequency Ablation in Complex Cases</b>	Arijit Biswas
<b>12:20 PM</b>	023-01-TWI-02-12	<b>Comparison between Traditional Model and Fetoscopic Surgical Simulator in Mannequin Training for Laser Placental Dichorionization</b>	Tuangsit Wataganara
<b>12:30 PM</b>	024-01-TWI-02-13	<b>Effects of Power and Time on Ablation Size Produced by Radiofrequency Ablation: In vitro Study in Fresh Human Placenta</b>	Tuangsit Wataganara
<b>12:40 PM</b>	025-01-TWI-02-14	<b>Observed Prevalence of Congenital Heart Disease in Fetuses based on Sonography in an Unselected, General Population between 2014-2018</b>	Abhiram Kanneganti
<b>12:50 PM</b>	026 -01-TWI-02-15	<b>Development and Initial Animal Testing of a Uterine Tone Monitoring Device</b>	Rony Marwan

**13:00 PM****LUNCH**

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**CDH (CDH-01)**

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**Chairperson: Michael Harrison and Masayuki Endo**

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<b>14:00 PM</b>	027-01-CDH-01-01	<b>Prediction Survival in Right Sided Congenital Diaphragmatic Hernia in the FETO era</b>	Jan Deprest
<b>14:10 PM</b>	028-01-CDH-01-02	<b>Outcomes of CDH Complicated by Major Structural or Chromosomal Anomalies.</b>	Oluyinka Olutoye
<b>14:20 PM</b>	030-01-CDH-01-04	<b>Evidence Based Approach to Direct Timing of Congenital Diaphragmatic Hernia Repair</b>	Katie Russell
<b>14:30 PM</b>	031-01-CDH-01-05	<b>Does delaying cord clamping improve pulmonary blood flow in congenital diaphragmatic hernia?</b>	Aidan Kashyap
<b>14:40 PM</b>	032-01-CDH-01-06	<b>When is Prenatal MRI Assessment in Congenital Diaphragmatic Hernia Most Useful?</b>	Candace Style
<b>14:50 PM</b>	033-01-CDH-01-07	<b>ECMO Utilization in Severe CDH: Can We Predict Lethal Pulmonary Hypoplasia?</b>	Erin Perrone
<b>15:00 PM</b>	034-01-CDH-01-08	<b>Prenatal Imaging Factors Associated with Gastrointestinal Morbidity in Congenital Diaphragmatic Hernia</b>	Mariatu Verla
<b>15:10 PM</b>	035-01-CDH-01-09	<b>Maternal risk factors in Congenital Diaphragmatic Hernia: A Nationwide Population based study</b>	Carmen Mesas Burgos
<b>15:20 PM</b>	036-01-CDH-01-10	<b>Heterogeneous Pulmonary Response Following Fetal Tracheal Occlusion in The Rabbit Congenital Diaphragmatic Hernia Model</b>	Rony Marwan
<b>15:30 PM</b>	037-01-CDH-01-11	<b>Myogenic Progenitor Cells Seeded on Extracellular Matrix Demonstrate Short Term Engraftment in a Rodent Model of Congenital Diaphragmatic Hernia</b>	Laura Galganski
<b>15:40 PM</b>	038-01-CDH-01-12	<b>The Development of a Prognostic Tool for Gastroschisis Based on Prenatal Sonographic Findings</b>	Lindel Dewberry
<b>15:50 PM</b>	040-01-CDH-01-14	<b>Timing of Postnatal Resection in Congenital Lung Malformations</b>	Candace Style
<b>16:00 PM</b>	041-01-CDH-01-15	<b>Fetal Goiter: Antenatal Diagnosis and Management</b>	Manjula Budidapadu
<b>16:10 PM</b>	042-01-CDH-01-16	<b>Renal Agenesis Fetal Therapy (RAFT) Multicenter Trial Update</b>	Eric Jelin
<b>16:20 PM</b>	132-01-CDH-01-17	<b>Smart Tracheal Occlusion</b>	Jan Deprest

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**16:30 PM****BEVERAGE BREAK**

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**Announcements / Adjourn**

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Thursday, 9th August 2018

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<b>07:00 AM</b>	<b>IFMSS Executive Board Meeting: to be held in the Sadewa Room</b>	IFMSS Board Members
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<b>08:20 AM</b>	<b>Housekeeping announcements</b>	Mahesh Choolani
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**Meningomyelocele: Session 1 (MMC-01)**

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**Chairpersons: Mark Johnson and Ramesha Papanna**

<b>08:30 AM</b>	043-02-MMC-01-01	<b>Cryopreserved Human Umbilical Cord (HUC) Patch for In-Utero Spina Bifida Repair Preserves Posterior Column Tracts and Improves Spinal Cord Function</b>	Lovepreet Mann
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<b>08:40 AM</b>	044-02-MMC-01-02	<b>Functional and Anatomical Integrity of Spinal Cord after In-utero Spina Bifida repair using Cryopreserved Human Umbilical Cord (HUC) Patch vs. Conventional repair (CR) in a Sheep Model</b>	Ramesha Papanna
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<b>08:50 AM</b>	045-02-MMC-01-03	<b>MOMS Plus: Single Institution Review of Outcomes for Extended BMI Criteria for Open Fetal Repair of Myelomeningocele</b>	Sarah Hilton
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<b>09:00 AM</b>	046-02-MMC-01-04	<b>Feasibility and Safety of Single-Port Fetoscopy for Spina Bifida Repair in the Fetal Lamb Model</b>	Luc Joyeux
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<b>09:10 AM</b>	047-02-MMC-01-05	<b>Learning Curve Analysis in a Rabbit Training Model Simulating Spina Bifida Fetoscopic Repair by Single Access</b>	Luc Joyeux
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<b>09:20 AM</b>	048-02-MMC-01-06	<b>The Compensatory Reserve Index: Potential to prevent fetal decompensation during myelomeningocele closure</b>	David Leopold
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<b>09:30 AM</b>	049-02-MMC-01-07	<b>Risk factors for Preterm Birth following open fetal Myelomeningocele Repair - Results from a prospective Cohort</b>	Maïke Kahr
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<b>09:40 AM</b>	050-02-MMC-01-08	<b>Prenatal Fractional Thigh Volume in Spina Bifida Patients as an Assessment Tool for Postnatal Motor Function</b>	Roopali Donepudi
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<b>09:50 AM</b>	051-02-MMC-01-09	<b>Transamniotic Stem Cell Therapy (TRASCET) in a Leporine Model of Spina Bifida</b>	Hester F Shieh
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<b>10:00 AM</b>	052-02-MMC-01-10	<b>Who says A must say B: a comprehensive postnatal follow-up program for patients with fetal spina bifida repair</b>	Luca Mazzone
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<b>10:10 AM</b>	053-02-MMC-01-11	<b>Fetal Surgery for Spina Bifida: Comparison of Results from the "The Zurich Center for Fetal Diagnosis and Therapy" and the "MOMS-Trial"</b>	Martin Meuli
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**10:20 AM**

**BEVERAGE BREAK**

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**Meningomyelocele: Session 2 (MMC-02)**

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**Chairpersons: Francois Luks and Oluyinka Olutoye**

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<b>10:40 AM</b>	055-02-MMC-02-02	<b>Amniotic CO2 Insufflation Induces Fetal Hypercapnia Acidosis and Neuro-Inflammation in a Sheep Model</b>	Marcus Davey
<b>10:50 AM</b>	056-02-MMC-02-03	<b>Set up an Amniotic Fluid Stem Cell-Derived Induced Pluripotent Stem Cells Disease Model and in Utero Therapy for Spina Bifida</b>	Steven Shaw
<b>11:00 AM</b>	057-02-MMC-02-04	<b>Fetal Surgery for Spina Bifida: Maternal and perinatal results with a novel hysterotomy techniques</b>	Adolfo Etchegaray
<b>11:10 AM</b>	058-02-MMC-02-05	<b>Fetal Surgery for Spina Bifida in Zurich - behind the scenes</b>	Barbara Casanova
<b>11:20 AM</b>	059-02-MMC-02-06	<b>Reliability of MR-based Posterior Fossa and Brain Stem Measurements in Spina Bifida Aperta in the era of Fetal Surgery</b>	Thomas Deprest
<b>11:30 AM</b>	060-02-MMC-02-07	<b>In utero Hepatitis B Immunization during Fetal Surgery for Myelomeningocele</b>	Ueli Moehrlen
<b>11:40 AM</b>	061-02-MMC-02-08	<b>Maternal and Perinatal Outcomes of Open in Utero Repair of Myelomeningocele from a Public Tertiary Center</b>	Victor Bunduki
<b>11:50 AM</b>	062-02-MMC-02-09	<b>Preliminary Surgical and Perioperative Findings of Open In Utero Repair of Myelomeningocele</b>	Victor Bunduki
<b>12:00 PM</b>	063-02-MMC-02-10	<b>Open Intrauterine Fetal Myelomeningocele Repair: Learning Curve of the Surgical Procedure and Perinatal Complications.</b>	Maike Kahr
<b>12:10 PM</b>	064-02-MMC-02-11	<b>Fetoscopic MMC Repair: A Pilot Study</b>	Lim Foong Yen
<b>12:20 PM</b>	065-02-MMC-02-12	<b>Fetoscopic Spina Bifida repair: Optimization of Techniques using an In-Vitro Uterus-Fetal Model</b>	Ramesha Papanna
<b>12:30 PM</b>	066-02-MMC-02-13	<b>High Dose Placental Mesenchymal Stromal Cells Provide Neuron Preservation In Ovine Myelomeningocele</b>	Laura Galganski

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<b>12:40 PM</b>	067-02-MMC-02-14	<b>Can Fetal MRI Predict Bladder Dysfunction in Patients with Neural Tube Defects?</b>	Morgan Telesmanich
<b>12:50 PM</b>	039-02-MMC-02-15	<b>Heated Humidified Amniotic Insufflation Reduces Fetal Acid Base Disturbances and Uterine Membrane Inflammation in Sheep</b>	Benjamin Amberg

<b>13:00 PM</b>	<b>LUNCH</b>		
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### Noninvasive Prenatal Screening and Diagnosis (NPS-01)

**Chairpersons: Mark Evans and Steven Shaw**

<b>13:50 PM</b>	068-02-NPS-01-01	<b>The Epidemic of Fetal Abnormalities being missed because of NIPT.</b>	Mark Evans
<b>14:00 PM</b>	069-02-NPS-01-02	<b>Trophoblast Isolation from Endocervical Aspirate using Microfluidic Chip and Antibody Cocktail for Non-Invasive Prenatal Diagnosis</b>	Mahesh Choolani
<b>14:10 PM</b>	117-03-PER-01-06	<b>Peripartum Maternal Antibiotic Administration Alters Neonatal Intestinal Microbiota</b>	Mahesh Choolani
<b>14:20 PM</b>	070-02-NPS-01-03	<b>Noninvasive Prenatal Diagnosis by Circulating Fetal Nucleated Red Blood Cells and Trophoblasts Using Silicon-Based Nanostructured Microfluidics</b>	Steven Shaw
<b>14:30 PM</b>	071-02-NPS-01-04	<b>Application of Cell-Free DNA Size-Based Approach in multiple pregnancy</b>	Xue Shuya
<b>14:40 PM</b>	072-02-NPS-01-05	<b>Develop a Non-Invasive Prenatal Screening for Fetal Aneuploidies Using Next-Generation Sequencing in Vietnam</b>	Thong Nguyen
<b>14:50 PM</b>	073-02-NPS-01-06	<b>Identification and Prenatal Diagnosis of FOXN1 Gene Mutation in a Consanguineous South Indian Couple – First case report from India.</b>	Tulika Tayal
<b>15:00 PM</b>	074-02-NPS-01-07	<b>Sex Chromosome Abnormalities Screened by Noninvasive Prenatal Testing from 35,827 singletons</b>	Xiong Shiyi
<b>15:10 PM</b>	075-02-NPS-01-08	<b>Does Choice of Surgical Repair of Gastroschisis Affect Nutritional Outcomes?</b>	Avraham Schlager
<b>15:20 PM</b>	076-02-NPS-01-09	<b>Severe Growth Restriction: Maternal and Perinatal outcomes- An experience from Fernandez Hospital, India</b>	Sushma Sriramaraaja

### Genetics & Genomics (GNG-01)

**Chairpersons: The-Hung Bui and Citra Mattar**

<b>15:30 PM</b>	077-02-GNG-01-01	<b>Epigenetic Analysis of Regulatory Genes in Extreme Premature Lambs Supported by the EXTra-uterine Environment for Neonatal Development (EXTEND)</b>	Jennifer L. Cohen
<b>15:40 PM</b>	078-02-GNG-01-02	<b>Intrauterine Phenotype Features of Four Fetuses with Williams-Beuren Syndrome and Literature Review</b>	Deng Linbei
<b>15:50 PM</b>	079-02-GNG-01-03	<b>Chromosome Microarray Analysis Rapidly Captures the Genetic Causes Associated with Spontaneous Miscarriage</b>	Deng Linbei
<b>16:00 PM</b>	080-02-GNG-01-04	<b>Whole Exome Sequencing Improves the Genetic Diagnosis in Fetuses with Increased Nuchal Translucency</b>	Xue Shuya
<b>16:10 PM</b>	081-02-GNG-01-05	<b>RNA-Sequencing Identifies Multiple Genes and Pathways of Neonates Affected by C-Section</b>	Chen Dan
<b>16:20 PM</b>	082-02-GNG-01-06	<b>Seagull Shaped Rib Syndrome, a Unique Case of Genetically Determined Prenatal Disturbance of Calcium Metabolism.</b>	Samuel Welch
<b>16:30 PM</b>	083-02-GNG-01-07	<b>S.I.L.A.F.: A Novel Method for Investigating Fetal Protein Synthesis Reveals Temporal and Tissue-Specific Regulatory Networks</b>	Barbara Coons
<b>16:40 PM</b>	084-02-GNG-01-08	<b>Double Bubble, Double Trouble</b>	Angie Jelin
<b>16:50 PM</b>	085-02-GNG-01-09	<b>Advances in Down Syndrome Disease Modeling Using Human iPSC</b>	Aparna Venkatesh
<b>17:00 PM</b>	129-03-GTS-01-05	<b>Mesenchymal Stem Cell can Induce Offsprings' Immune Tolerance Against Non-Inherited Antigens in Murine Maternal-to-Fetal Microchimeric Model.</b>	Masayuki Endo

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**Young Investigators Open (OPE-01)**

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**Chairpersons: Diana Farmer and Toyin Olutoye**

<b>17:10 PM</b>	086-02-OPE-01-01	<b>In Utero Gene Correction Mediated by PNA-Nanoparticles</b>	Adele Ricciardi
<b>17:20 PM</b>	087-02-OPE-01-02	<b>A Comparison of Clinically Relevant Perinatal Sources of Mesenchymal Stem Cell-Derived Exosomes</b>	Sarah Tracy
<b>17:30 PM</b>	088-02-OPE-01-03	<b>Improving Engraftment Potential of Fetal and Umbilical Cord Haemopoietic Stem Cells Through Coculture with Wharton Jelly Stem Cells in an Intrauterine Transplantation Murine Model</b>	Sarah Li
<b>17:40 PM</b>	089-02-OPE-01-04	<b>Fetal Neuroimaging Biomarkers of Neuropsychiatric Disease</b>	Tayyib T A Hayat
<b>17:50 PM</b>	090-02-OPE-01-05	<b>Contrast-Enhanced Ultrasound Evaluation of Fetal Brain Perfusion Parameters</b>	Ryne Didier

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**Announcements / Adjourn**

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Saturday, 11th August 2018

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08:15 AM Housekeeping Announcements

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**Fetal Surgery and Artificial Placenta (SAP-01)**

Puri Kencana  
Grand Ballroom

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**Chairpersons: Alan Flake and Karin Blakemore**

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08:30 AM 091-03-SAP-01-01 **Enhanced Recovery after Anesthesia and Surgery (ERAS) Protocol for In-Utero Fetal Surgery** Toyin Olutoye

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08:40 AM 092-03-SAP-01-02 **Navigare Nesse Est** Sverker Ek

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08:50 AM 093-03-SAP-01-03 **From the Artificial Placenta to Breathing Air in Premature Lambs** George Mychaliska

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09:00 AM 094-03-SAP-01-04 **Hepatic Effects after Support on the Artificial Placenta** George Mychaliska

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09:10 AM 095-03-SAP-01-05 **Parental Perspectives of Coordinated Care - Before and After Implementation of a Fetal Center** Stephen J. Fenton

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09:20 AM 096-03-SAP-01-06 **Gastrointestinal Mucosal Development and Injury in Premature Lambs Supported by the Artificial Placenta** George Mychaliska

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09:30 AM 097-03-SAP-01-07 **Predictors of Mortality in ELGANS: A Prelude to the Artificial Placenta** George Mychaliska

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9:40 AM 140-03-SAP-01-08 **It is time to revisit the maternal criteria for selection of NTD surgery** Karolina Adam

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**Fetal Heart, Lung, Lymph, Thyroid, Kidney and Gut (ORG-01)**

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**Chairpersons: Anita Moon-Grady and Peter Lindgren**

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09:50 AM 098-03-ORG-01-01 **Fetal Cardiac Intervention for Pulmonary Stenosis or Atresia with Intact Ventricular Septum: A Report from the International Fetal Cardiac Intervention Registry** Anita Moon-Grady

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10:00 AM 099-03-ORG-01-02 **Atypical Presentation of CHAOS due to Associated Tracheoesophageal Fistula** Darrell L. Cass

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10:10 AM 100-03-ORG-01-03 **Human Fetal Hearts with Tetralogy of Fallot has Altered Fluid Mechanical Force Environment from Normal Fetal Hearts** Citra Mattar

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10:20 AM 101-03-ORG-01-04 **Isolated Fetal Ascites-A Case Series of Fetal Outcomes in a North Indian Population to Determine Which Investigation was Most Useful to Diagnose the Underlying Pathology in a Resource Limited Setting** Anita Kaul

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10:30 AM 102-03-ORG-01-05 **Early delivery in fetal gastroschisis: a randomized controlled trial of elective 34 week delivery versus routine obstetrical care.** Alireza Shamshirsaz

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10:40 AM 103-03-ORG-01-06 **Histologic Appearance of Iatrogenic Hydrocephalus in the Lamb Model** Stephen Emery

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10:50 AM

BEVERAGE BREAK

Imaging (IMG-01)

Chairpersons: Stephen Emery and Judy Estroff

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11:00 AM	104-03-IMG-01-01	The World is not Black and White:- The World is Shades of Grey	Kevin Pringle
11:10 AM	105-03-IMG-01-02	Art + Science In Utero	Francois Luks
11:20 AM	106-03-IMG-01-03	Transvaginal Three-Dimensional Assessment of Sylvian Fissures at 18-30 weeks gestation	Liona Poon
11:30 AM	107-03-IMG-01-04	Unreliability of Standard Fetal Imaging Biomarkers for Prediction of Lethal Fetal Pulmonary Hypoplasia	Richard B. Parad
11:40 AM	108-03-IMG-01-05	Ultrasonic Diagnosis Techniques of Esophageal Duplication Cyst in the Neck	Huang Lan
11:50 AM	109-03-IMG-01-06	Fetal MRI at 3T between 12 and 16 weeks gestation: Feasible, Diagnostic and Safe	Judy A. Estroff
12:00 PM	110-03-IMG-01-07	Prediction of Fetal Anemia in Subsequent Transfusions – Is There a Need to Change the Threshold of Middle Cerebral Artery - Peak Systolic Velocity (MCA - PSV)?	Prathima Radhakrishnan
12:10 PM	111-03-IMG-01-08	Color Tissue Doppler Derived Myocardial Performance Index Measured by An Automated Technique Reflects Fetal Acid-Base Status	Ganesh Acharya

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12:20 PM

LUNCH

Perinatal Health (PER-01)

Chairpersons: Mark Evans and Liona Poon

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13:20 PM	112-03-PER-01-01	Re-engineering Fetal Monitoring to Reduce Cerebral Palsy and Cesarean Sections	Mark Evans
13:40 PM	113-03-PER-01-02	Obstetric and Neonatal Outcomes Associated with an Antenatal Surveillance Program for Pregnancies Complicated by Gastroschisis	Mark Johnson

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<b>13:50 PM</b>	115-03-PER-01-04	<b>Predicting Intrauterine Tranfusion Interval and Perinatal Outcomes in Alloimmunized Pregnancies: Time-to-Event Analysis</b>	Edmond N Kelly
<b>14:00 PM</b>	116-03-PER-01-05	<b>Outcomes of Patients with Prenatally Diagnosed Hemoglobin Bart's Disease in Ontario, Canada</b>	Edmond N Kelly
<b>14:20 PM</b>	118-03-PER-01-07	<b>Measurement of Biomarkers for First-Trimester Preeclampsia Screening in Asia</b>	Liona Poon
<b>14:30 PM</b>	119-03-PER-01-08	<b>Validation of Screening Performance of First-Trimester Prediction Algorithm for Preeclampsia in an Asian Population</b>	Liona Poon
<b>14:40 PM</b>	120-03-PER-01-09	<b>Screening for Preeclampsia by Maternal Characteristics, Uterine Artery Doppler and Biomarkers at 11-13 weeks Gestation in Twin Pregnancy</b>	Sun Luming
<b>14:50 PM</b>	121-03-PER-01-10	<b>A Retrospective Review of the Maternal and Neonatal Outcomes in Patients with Elective and Emergency Cervical Cerclages</b>	Karen Lim
<b>15:00 PM</b>	122-03-PER-01-11	<b>Motorizing and Optimizing Ultrasound Strain Elastography for Detecting Intrauterine Growth Restriction Pregnancies</b>	Citra Mattar
<b>15:10 PM</b>	123-03-PER-01-12	<b>Challenges in Serological Screening for Recent ZIKA Infections in Pregnancy: Results of a Hospital Based Cohort in Dengue-Endemic Singapore</b>	Chan Shiao-Yng
<b>15:20 PM</b>	141-03-PER-01-13	<b>Pregnancy outcomes after bariatric surgery</b>	Anita Kale

<b>15:30 PM</b>	<b>BEVERAGE BREAK</b>		
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#### Gene Therapy & Stem Cells (GTS-01)

**Chairpersons: Mahesh Choolani**

<b>15:40 PM</b>	125-03-GTS-01-01	<b>Efficacy of Early and Late Gestational AAV-IUGT in a Non-Human Primate Model</b>	Citra Mattar
<b>15:50 PM</b>	126-03-GTS-01-02	<b>Maternal Immune Cell Trafficking in a Murine Model of Allogeneic Intrauterine Haemopoietic Stem Cell Transplantation</b>	Citra Mattar
<b>16:00 PM</b>	127-03-GTS-01-03	<b>First in utero AAV-based Genomeediting to Cure a Mouse Model of Liver Disease: Hereditary Tyrosinemia type 1</b>	Joseph Lillegard
<b>16:10 PM</b>	128-03-GTS-01-04	<b>In Utero Liver-Directed Lentiviral Gene Therapy Cures a Pig Model of Hereditary Tyrosinemia type 1</b>	Joseph Lillegard
<b>16:20 PM</b>	130-03-GTS-01-06	<b>Toxicity of Early and Late Gestational AAV-IUGT in a Non-Human Primate Model</b>	Citra Mattar
<b>16:30 PM</b>	131-03-GTS-01-07	<b>Immunological Response to AAV-IUGT Administered in Early Gestation in a Non-Human Primate Model</b>	Citra Mattar
<b>16:40 PM</b>	143-03-GTS-01-08	<b>Fetal Therapy for Alpha Thalassaemia Major: Developing a Clinical Trial and International Registry</b>	Kristen Gosnell

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## Asia Outreach Abstracts (AOA)

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**Chairpersons: Mahesh Choolani and Sun Luming**

<b>17:00 PM</b>	133-03-AOA-01-01	<b>Risk Factors Analysis of Neonatal Postoperative Mortality in Meconium Peritonitis Patients</b>	Mei Shanshan
<b>17:10 PM</b>	134-03-AOA-01-02	<b>Multidisciplinary Cooperation and Optimizing Management Improves Clinical Outcomes in Severe Congenital Diaphragmatic Hernia Neonates. A Report of 4 cases.</b>	Mei Shanshan
<b>17:20 PM</b>	135-03-AOA-01-03	<b>Management Algorithm and Clinical Outcome of Fetal Congenital Diaphragmatic Hernia: Experience of a Tertiary Center in Mainland China</b>	Wei Zhong
<b>17:30 PM</b>	136-03-AOA-01-04	<b>Fetal Lymphangioma: Prenatal Diagnosis on Ultrasound, Treatment, and Prognosis</b>	Li Jiaoling
<b>17:40 PM</b>	137-03-AOA-01-05	<b>How to Make an Accurate Diagnosis of Fetal Pyriform Sinus Fistula In Utero: Experience at a Single Medical Center in Mainland China</b>	Han Jin
<b>17:50 PM</b>	138-03-AOA-01-06	<b>The Value of Prenatal MRI and Ultrasound in the Diagnosis of Congenital Esophageal Atresia</b>	Huang Li
<b>18:00 PM</b>	139-03-AOA-01-07	<b>Perinatal Outcomes of Thoracoamniotic Shunting for Fetal Primary Pleural Effusions: A Single Center Experience</b>	Wei Xing
<b>18:10 PM</b>	142-03-AOA-01-08	<b>Predicting Need for Surgery and Poor Outcomes in Newborns with Meconium Peritonitis Regression Models based on 49 Cases</b>	Yan Feng
<b>18:30 PM</b>	<b>Business Meeting</b>		

### Detailed Programme and Presentation Notes

1 Explanation of our Serial Number standardisation: In order to help everyone, the presenter, the AV team and the audience, we are using a Dewey Decimal-like classification. The first 3 digits are the presentation NUMBER (001-131); the next 2 digits are DAY of the Conference starting from Wednesday, 8th August, 2018; the next 3 LETTERS are an abbreviation of the Topic (e.g. TWI for Twins); and the last 2 digits refer to the PRESENTATION NUMBER within an individual session. As an illustration:

Abstract Number	Day of Presentation	Topic (e.g. Twins)	Session number within the Topic	Presentation number within Session
001	- 02	- TWI	- 01	- 04

2 All presentations are limited to 5 minutes. As a guide, your presentations should include no more than 10 slides. Use the 5 minutes to share the most important messages of your work with the audience. In general, there is no specific requirement to thank the organising committee or the session chairs during your allocated 5 minutes, you are welcome to do so before the session, during the breaks and at the social events. As a general guide, only 1-2 slides should focus on the introduction of your presentation, and more of the limited time and slides available dedicated to the methods, results, and discussion of the data. In order to keep the presentations moving smoothly during the meeting, please be close to the front of the ballroom, near the podium five minutes before it is your turn to present.

For the smooth running of the meeting, all delegates are encouraged to send their slides to Ms Ginny Chen (ginny@nus.edu.sg) on, or before, Wednesday, 1st August, 2018. For delegates under the age of 40, some of who may be eligible for awards, this is compulsory; the only exception being delegates whose presentations contain videos - these will be uploaded on site at the Conference venue.

3 The PowerPoint presentations should be saved in the following format:  
 LAST NAME in Capitals, DDMMYY of your presentation, and serial number of your presentation. For example, if Ms Ginny Chen were the FIRST presentation, presenting on the FIRST Twins Session, on the First Day of the Conference (8th August, 2018), then her filename should be: CHEN-080818-001-01-TWI-01-01

Please study the Detailed Programme carefully. Please ensure that:

1. Your name is spelled correctly, and presented in your preferred format

2. Your presentation title is correct, and complete.

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3. You fully understand these preparatory notes;

4. You will be at the meeting venue on the day and at the time allocated to you, or please alert Ms Ginny Chen immediately so that alternative arrangements can be made for you; and

5. You keep to the time allocated to you for your presentation so that everyone gets to present their work, and that everyone can have an enjoyable and fruitful meeting.

Dear Delegate, colleague and friend,

On behalf of the organising committee here in Singapore, we are looking forward to welcoming you in Bali for the IFMSS. Thanks to all of you, we have been able to put together an exciting programme in fetal medicine and surgery. I hope you will all enjoy it as much as we have enjoyed putting it together for you. Between now, and your travels to Bali, if there's anything we can do to help, please do not hesitate to contact Ginny ([ginny@nus.edu.sg](mailto:ginny@nus.edu.sg)) or myself ([obgmac@nus.edu.sg](mailto:obgmac@nus.edu.sg)), and we will do all we can to help.

Safe travels to Bali, and we'll all be waiting there to welcome you to the Meeting.

With Warmest Wishes,  
Mahesh