# Schedule of Events

All meetings and sessions will be located in the Lloyd Sexton Gallery unless noted otherwise.

## Sunday June 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11am–7p m</td>
<td><strong>Guest Arrival</strong>&lt;br&gt;Transportation provided from Kona Airport to Mauna Kea Beach Hotel</td>
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<tr>
<td>6–8p m</td>
<td><strong>Welcome Reception</strong>&lt;br&gt;Garden Room &amp; Mauna Kea North Lawn</td>
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## Monday June 12

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6–7a m</td>
<td><strong>Breakfast Buffet</strong></td>
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<tr>
<td>6–7a m</td>
<td><strong>Editorial Board Meeting: Fetal Diagnosis &amp; Therapy Journal</strong>&lt;br&gt;@ Pavilion Restaurant</td>
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<tr>
<td>7–7 :10am</td>
<td><strong>Introduction with Mike Harrison</strong></td>
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<tr>
<td>7:10–7 :20am</td>
<td><strong>The History of IFMSS with Kevin Pringle</strong></td>
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<tr>
<td>7:20–8 :30am</td>
<td><strong>CDH Session</strong> (Moderated by Jean-Martin Laberge &amp; Ed Yang)</td>
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- Baird, Robert - Lung Branching in the Nitrofen Rat Model of CDH with or without Tracheal Occlusion [6min w/ 4min Q&A]
- Barnewolt, Carol - Percent Predicted Lung Volumes as measured on Fetal MRI: a useful biometric parameter for risk stratification in CDH [3min w/ 2min Q&A]
- Ruano, Rodrigo and Bunduki, Victor - Correlation between prenatal pulmonary vascular indices estimated by 3D power Doppler ultrasonography and postnatal pulmonary arterial hypertension in isolated CDH [6min w/ 4min Q&A]
- Hedrick, Holly - Prenatal glucocorticoids improves respiratory function in lambs with CDH following tracheal occlusion therapy [6min w/ 4min Q&A]
- Mychaliska, George - Promoting Lung Growth in CDH: a Clinical Trial of Perfluorocarbon-Induced Lung Growth (PILG) [6min w/ 4min Q&A]
Hedrick, Holly - Effect of Fetal Tracheal Occlusion on Lung Development in Patients with Severe CDH: a Morphologic Analysis of Pulmonary Architecture and Pulmonary Vasculature [3min w/ 2min Q&A]

Baird, Robert - Expression of LGL1 and Shh in the Rat Model of CDH with or without Tracheal Occlusion [6min w/ 4min Q&A]

Grethel, Erich - Does CDH associated with BPS portend a better prognosis? [3min w/ 2min Q&A]

Hedrick, Holly - Liver Position is Best Prenatal Predictor of need for ECMO and Survival in Left CDH [3min w/ 2min Q&A]

8:30–9am

CDH Free for all: Where to now? (Moderated by Mike Harrison & Mark Evans)

9-10:20am

Chest Session (Moderated by Holly Hendrick & Oluyinka Olutoye)

Wilson, Douglas - Effect of maternal Steroids on Prenatal CCAM Growth & Fetal Survival [6min w/ 4min Q&A]

Cass, Darrell - Management of the Hydropic Fetus with a Lung Mass: Lessons Learned at a "new" Fetal Surgery Center [3min w/ 2min Q&A]

Grethel, Erich - Fetal Intervention for Mass Lesions and Hydrops improves outcome: a 15 year experience [6min w/ 4min Q&A]

Mychaliska, George - Giant Pulmonary Sequestration: the rare case requiring the EXIT Procedure with Resection and ECMO [3min w/ 2min Q&A]

Crombleholme, Timothy - CHAOS due to Complete Absence of Trachea [3min w/ 2min Q&A]

Olutoye, Oluyinka - Atypical Fetal Lung Lesion Presenting in late Gestation [3min w/ 2min Q&A]

Kitano, Yoshihiro - Aberrant venous flow measurement may predict clinical behavior of a fetal extralobar pulmonary sequestration [3min w/ 2min Q&A]

Jorgensen, Connie - OK-432 Treatment of Fetal Chylothorax: a Follow-Up Study [3min w/ 2min Q&A]

Rychik, Jack - Impact of Intra-Thoracis Lesions on Myocardial Kinesis in the Fetal Heart: a Study comparing intra-thoracic Mass Anomalies and CDH using Doppler Tissue Imaging [6min w/ 4min Q&A]

Wagner, Amy - Gene Expression Analysis of Congenital Cystic Adenomatoid Malformation Reveals a Novel Pulmonary Protein: Fatty Acid Binding Protein-7 (Brain-type) [6min w/ 4min Q&A]

Hedrick, Holly - FGF-10 Gene Transfer to the Fetal Lung induces Congenital Cystic Adenomatoid Malformation-like Lesions [3min w/ 2min Q&A]

10:20-11:15am AWD/SCT/UT Session (Moderated by Max Maizels & Roland Zimmermann)

Pringle, Kevin - Long-term follow-up of antenatally diagnosed hydronephrosis [6min w/ 4min Q&A]

Clifton, Matt - Long-term outcome of Fetal Urinary Tract Obstruction with Urinary Ascites [6min w/ 4min Q&A]

Fischer, Anne - Is the Degree of Prenatal Bowel Dilation Predictive of PostNatal Diagnosis [3min w/ 2min Q&A]

Sy, Edgar - Prognostic Role of Tumor Head Volume Ratio in Fetal SCT [6min w/ 4min Q&A]
Ohashi, Shinsuke - The Role of Tumor Weight Percentage of the Estimated Fetal Weight in Fetal Intervention for SCT [3min w/ 2min Q&A]

CBarini, Ricardo - Genomic profiling and karyotyping of gas troehisis and omphalocele [6min w/ 4min Q&A]

Fischer, Anne - Unusual Malformations associated with Gastrochisis: a Spectrum of Anomalies with a common etiology [3min w/ 2min Q&A]

11:15-12:15pm **Lunch**

12:15-1:30pm **Cardiac Session** (Moderated by Rusty Jennings & Jack Rychik)

Gardiner, Helena - Intrapartum Fetal ECG: validation of non-invasive signal acquisition [3min w/ 2min Q&A]

DeVore, Greggory - Recent Developments in 2D measurements of the fetal heart using Z-scores: an automated approach [3min w/ 2min Q&A]

Tian, Zhiyun - Characterization of Myocardial Kinesis in the Fetal Heart: Doppler Tissue Imaging in the Normal Fetus through Gestation [6min w/ 4min Q&A]

Gardiner, Helena - Z scores of the fetal aortic isthmus in the three vessel view may predict isolated aortic coarctation [6min w/ 4min Q&A]

Fujisaki, Masayuki - Creation of an atrial septal defect in beating hearts using high-intensity focused ultrasound (HIFU): Is it useful for minimally invasive fetal cardiac interventions? [6min w/ 4min Q&A]

DeVore, Greggory - Tomographic ultrasound imaging of the fetal heart: a new technique for identifying normal and abnormal cardiac anatomy [6min w/ 4min Q&A]

Crombleholme, Timothy - Resection of Fetal Pericardial Teratoma [3min w/ 2min Q&A]

Jennings, Russell - Update on Fetal Cardiac Intervention at Children's Hospital, Boston [6min w/ 4min Q&A]

Gardiner, Helena - Non-Invasive Measures of Heart Rate Variability Following Intermittent Umbilical Cord Occlusion in the Preterm Ovine Fetus [3min w/ 2min Q&A]

1:30-2:15pm **Imaging Session** (Moderated by Robert Ball & Helena Gardiner)

Achiron, Reuven - 3 & 4 Dimensional Ultrasound: A New Method for Eval Tetal Thoracic Anomalies [6min w/ 4min Q&A]

Estroff, Judy - Accuracy of Prenatal Imaging of Fetal Cleft Palate by MRI [6min w/ 4min Q&A]

DeVore, Greggory - 3D imaging of the fetal heart: Current applications and future directions [6min w/ 4min Q&A]

Barnewolt, Carol - Fetal Sheep Development on Ultrasound and MRI: a standard for the in utero assessment of models of congenital abnormalities [3min w/ 2min Q&A]

Simpson, Lynn - Center for Prenatal Pediatrics Evaluation: Impact on Diagnosis [3min w/ 2min Q&A]

2:30-4:15pm **MMMM Session** (Moderated by Ken Ward & Humphrey Kanhai)

Cortes, Raul - Evaluation of maternal and fetal stress response to maternal-fetal surgery [6min w/ 4min Q&A]
Barini, Ricardo - Feticide does not influence clinical and abstrctical evolution in medical interruption of pregnancy [3min w/ 2min Q&A]

Fauza, Dario - Fetal Hepatic Hematopoiesis is Modulated by Arterial Blood Flow to the Liver [6min w/ 4min Q&A]

Myers, Laura - Fetal Plasma Concentrations After Intraamniotic Fentanyl Administration in Instrumented Pregnant Sheep [6min w/ 4min Q&A]

Bilic, Grozdana - Chemotaxis migratory deficit of amnion cells accompanies multiple pregnancy complications [6min w/ 4min Q&A]

Zimmermann, Roland - Closure of Fetoscopic Access sites with amniotic extracellular matrix scaffolds in an in vivo model [6min w/ 4min Q&A]

O’Brien, John - Route of Administration of Plugging Agents Does Not Appear to Alter Gestational Age at Delivery in Women Treated for Preivable PROM [6min w/ 4min Q&A]

Enosawa, Shin - Vitrified collagen sheet, Vitrigel, a novel biophlic sealant for fetal surgery [6min w/ 4min Q&A]

Cortes, Raul - Preemptive placement of a pre-sealant for preventing rupture in fetal surgery [3min w/ 2min Q&A]

Papadopulos, Nikolaos - Successful closure of fetal membrane defects using manufactured, decellularized human amnion membrane after getoscopy in the midgestational rabbit model [6min w/ 4min Q&A]

Farmer, Diana - Fetal Surgery and Living Related Transplants [6min w/ 4min Q&A]

7pm

Island Clam Bake on Mauna Kea Beach

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**Tuesday June 13**

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<tr>
<td>6-7am</td>
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<td>6-7am</td>
<td>IFMSS Board Meeting @ Pavilion Restaurant</td>
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<tr>
<td>7:00-8:30am</td>
<td>Twin Session I (Moderated by Julian De Lia &amp; Tim Crombleholme)</td>
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Skupski, Daniel - An Ethnically Justified Decision-Making Pathway for the Management of Prenanacies complicated by TTTS [6min w/ 4min Q&A]

Crombleholme, Timothy - Multimodal Approach to Management of TTTS [6min w/ 4min Q&A]

Van den Wijngaard, Jeroen - Mathematical modeling of stage III TTTW [6min w/ 4min Q&A]

De Lia, Julian - Maternal malnutrition and anemia in mid-gestation TTTS [6min w/ 4min Q&A]

Rychik, Jack - Proposal of a Cardiovascular Score for TTTS [6min w/ 4min Q&A]

Van den Wijngaard, Jeroen - Two Possible Mechanisms that may affect the staging sequence of TTTS [6min w/ 4min Q&A]

Van Gemert, Martin - Arterio-venous feto-fetal transfusion measured in a monochorionic twin pregnancy [3min w/ 2min Q&A]

Zimmermann, Roland - Fetoscopic mapping of placental surface vasculature [3min w/ 2min Q&A]
Favre, Romain - Prognostic factors in TTTS treated by Laser [3min w/ 2min Q&A]
Takifuji, Katsunari - Prognostic factors of severe TTTS treated by fetoscopic laser coagulation [3min w/ 2min Q&A]
Sago, Haruhiko - Fetoscopic laser photoagulation for TTTS in Japan [6min w/ 4min Q&A]

8:30-10:00am  
**Twin Session II** (Moderated by Hanmin Lee & Tony Johnson)
Van den Wijngaard, Jeroen - Modeling cases of large discordant hematocrits followed by a delayed amniotic fluid imbalance from incomplete laser therapy in TTTS [3min w/ 2min Q&A]
Nicolini, Umberto - The effect of laser ablation of placental anastomoses on perinatal outcome in TTTS [6min w/ 4min Q&A]
Favre, Romain - Placental analysis in monochorionic twins [6min w/ 4min Q&A]
Lopriore, Enrico - Long-Term Neurodevelopmental outcome in TTTS treated with Fetoscopic Laser Surgery [6min w/ 4min Q&A]
Van Gemert, Martin JC - Arterioarterial anastomoses: food for thought? [6min w/ 4min Q&A]
Lopriore, Enrico - Twin anemia-polycythemia sequence in monochorionic twins without oligo-polyhydramnios sequence in association with small arteriovenous anastomoses [3min w/ 2min Q&A]
Lopriore, Enrico - Residual anastomoses after fetoscopic laser surgery in TTTS: frequency, associated risks and outcome [3min w/ 2min Q&A]
Johnson, Anthony - Is it necessary to sever the umbilical cord following vascular occlusion in complicated monochorionic monoamniotic twins? [3min w/ 2min Q&A]
Moise, Jr., Kenneth - Radiofrequency ablation for selective termination in monozygotic twins discordant for fetal abnormalities [6min w/ 4min Q&A]
Tran, Kha - Prenatal Intervention for Complicated Multiple Gestations [6min w/ 4min Q&A]
Jaffa, Ariel - Analysis of Amnioreduction in Patients with severe TTTS: Measurements of Intrauterine Pressure (IUP) and Fetal Blood Flow [3min w/ 2min Q&A]

10:10-11am  
**Hematology Session** (Moderated by Wolfgang Holzgreve & Ken Moise)
Oepkes, Dick - Severe Kell Disease before and after introduction of routine screening for Kell antibodies in pregnancy [6min w/ 4min Q&A]
Van den Akker, Eline - Invasive versus noninvasive management of Fetal and Neonatal Alloimmune Thrombocytopenia [6min w/ 4min Q&A]
Lipitz, Shlomo - Antenatal Non-Invasive Management of Neonatal Alloimmune Thrombocytopenia [6min w/ 4min Q&A]
Chooolani, Mahesh - CD147: Potential new marker for enrichment of first trimester erythroblasts from maternal blood [3min w/ 2min Q&A]
Blackmore, Karin - Investigations Using the Canine Model for Intrauterine Hematopoietic Cell Transplantation [6min w/ 4min Q&A]

11-11:45am  
Lunch

11:45am  
**Group Photo** (Location TBA)
12:15pm

 Screening Session (Moderated by Connie Jorgensen & Doug Wilson)
 Shanmugathan, Sulochana - Is Antenatal Practice Evidence-Based? Need for more data and standardized clinical guidelines [6min w/ 4min Q&A]
 Kim, Peter - Fetal Alert Network: An Integrated Network of Population-Based Antenatal Care: Benchmarking and Linking conception to outcome [6min w/ 4min Q&A]
 Bunduki, Victor - A score-based approach including nasal bone length in mid trimester screening for Down Syndrome [3min w/ 2min Q&A]
 Bunduki, Victor - Screening for Down Syndrome -- theoretical model using ultrasound in association with maternal age in a brazilian population [3min w/ 2min Q&A]
 Choolani, Mahesh - Maternal serum based proteomics approach for detection of fetal trisomy [6min w/ 4min Q&A]
 Choolani, Mahesh - FastFISH: improved technique for fluorescence in situ hybridisation on uncultured amniotic fluid cells that allows reporting within two hours of amniocentesis [6min w/ 4min Q&A]
 Nicolini, Umberto - A Randomized study of two different techniques to perform transabdominal CVS [3min w/ 2min Q&A]
 Mitchell, Michael - Denaturing Capillary Electrophoresis to Detect Fetal Chromosomal Abnormalities from Maternal Serum [6min w/ 4min Q&A]
 Maizelsm, Max - A New Dimension for Counseling Parents on the prognosis of Fetal Urological Ultrasound Findings - "Incidence-Based" Method using the vipur registry of more than 1000 cases [6min w/ 4min Q&A]
 Barini, Ricardo - Body Stalk prevalence and environment influence at Fetal Medicine Unit - UNICAMP [6min w/ 4min Q&A]
 Andrade, Joelma - Rubella in Pregnancy: Intrauterine transmission and perinatal outcome during a brazilian epidemic [3min w/ 2min Q&A]
 Evans, Mark - Meta Analysis: Free B hCG and total HCG [6min w/ 4min Q&A]
 Isfer, Eduardo - Protocol using Nuchal Translucency: proposal for surveillance during the prenatal period [3min w/ 2min Q&A]
 Yankowitz, Jerome - Ultrasound Findings of Trisomy 18 [3min w/ 2min Q&A]

2:20pm

 Fetal Therapy Organizations: IFMSS, Eurofetus, and NAFTNet
 (Moderated by Mike Harrison & Tony Johnson)

2:30pm

 MMC/Neuro Session (Moderated by Bill Clewell & Diana Farmer)
 Estroff, Judy - Importance of Urodynamic Evaluation in Neonates Born After a Prenatal Diagnosis of Neural Tube Defect [6min w/ 4min Q&A]
 Bilaniuk, Larissa - MRI findings in fetuses with neural tube defect without hindbrain herniation [3min w/ 2min Q&A]
 Ruano, Rodrigo and Bunduki, Victor - Predicting the level defect of spine bifida by 2D and 3D ultrasonography - preliminary results [3min w/ 2min Q&A]
 McShane, Cyrethia - Imaging of Neural Tube Defects -Isolating the Lesion Utilizing 3D Ultrasound [3min w/ 2min Q&A]
 Wilson, Douglas - Does a MMC Sac Compared to no Sac Increase Neonatal Morbidity After Maternal Fetal Surgery [3min w/ 2min Q&A]
Gupta, Devendra - Application of Stem cells in Spina Bifida -- Can it improve neurological status? [6min w/ 4min Q&A]

Bus leaves for Kahua Ranch
Dinner and entertainment Paniolo style at the Kahua Ranch (Bring a sweater because the breathtaking Kohala Mountains can be a bit chilly)

Wednesday June 13

6-7a m  Breakfast Buffet

New Technologies Session (Moderated by Dario Fauza & Toshio Chiba)
Nemes, Luanne - The Evolution of a Fetal Care Center [6min w/ 4min Q&A]
Cass, Darrell - Fetal Artery Healing: Lack of Inflammation and Decreased Upregulation of PDGF-B Correlates with a Lack of Neointimal Hyperplasia [6min w/ 4min Q&A]
Vayssiere, Christophe - A Virtual Reality System based on Patient Imaging Data for Hands-On Simulation of Ultrasound Examination [6min w/ 4min Q&A]
Gupta, Devendra - EHBA-Stem cell therapy as an alternative to Liver transplant [6min w/ 4min Q&A]
Shaaban, Aimen - Prenatal Transplantation of Embryonic Stem Cell derived Hematopoietic Progenitor cells [6min w/ 4min Q&A]
Chiba, Toshio - Feasibility Study of 2-DOFs bending forceps manipulator for fetal surgery [6min w/ 4min Q&A]
Chiba, Toshio - Our innovation for TTTS laser surgery: new bending manipulator and laser device [3min w/ 2min Q&A]
Olutoye, Oluyinka - Lessons Learned from animal experiments using radiofrequency ablation [6min w/ 4min Q&A]
Fauza, Dario - Prenatal Tracheal Repair with Cartilage Engineered from Mesenchymal Amniocytes [3min w/ 2min Q&A]
Choolani, Mahesh - MEMS and microfluidics techniques to enrich FNRBCs from maternal blood [6min w/ 4min Q&A]
Uose, Hisao - Remote fetal Treatment Trial using Research and Education Networks [6min w/ 4min Q&A]
Harrison, Mike - Web-based Fetal Care [6min w/ 4min Q&A]
Mychaliska, George - Development of an Artificial Placenta [3min w/ 2min Q&A]
Papadopolus, Nikolaos - Intraterine Repair of Surgically Created Cleft Lip-Like Defects Using the Millard Technique in the Pregnant Sheep Model [3min w/ 2min Q&A]

10am  I've been sitting too long! Session
Get outside and do something! Choose from: golf, nature hike, snorkel, dive or kayak, spa and others (included in registration fee).

7pm  Grand Finale Feast and Celebration on the Mauna Kea South Lawn

Thursday June 13

World Cup: 3am ECU:CRC  6am ENG:TRI  9am SWE:PAR
6–7a m  Breakfast Buffet
8–9a m  Business Meeting
9am– 7pm  Group Departures
Transportation provided Mauna Kea Beach Hotel to Kona Airport