

19<sup>th</sup> Annual International Fetal Medicine and Surgery Society  
Nantucket Island, Massachusetts  
September 10-13, 2000

## **IFMSS 2000 Scientific Abstract Presentation Schedule**

19<sup>th</sup> Annual International Fetal Medicine and Surgery Society  
Nantucket Island, Massachusetts  
September 10-13, 2000

IFMSS Scientific Presentation Sessions

Monday, September 11, 2000 Harbor House Conference Room

7:30 a.m. – 7:45 a.m. Welcome and Introductions N. Scott Adzick, M.D.

7:45 a.m. – 11:30 a.m. Topic: Prenatal Diagnosis Moderator(s):  
M. Evans and R.D. Wilson

- Longitudinal Measurement of Middle Cerebral Artery Systolic Peak Velocity as a Tool to Monitor Pregnancies Complicated by Red-Cell Alloimmunization: A Prospective Multi-center Trial with Intention to Treat. *R. Zimmermann, P. Durig, R.L. Carpenter, G. Mari.*
- Does Marsh Score Contribute to the Evaluation of Patients at Risk of Fetal Anemia in Red Blood Cell Alloimmunization? *J. Yankowitz, A. Rijhsinghani, R.A. Williamson, W.F. Hansen, S. Nestler.*
- Absolute Quantification of Cerebral Oxy- and Deoxyhaemoglobin Concentration Measured by Intensity Modulated Optical Spectrometry in the Human Fetus during Labour. *D. Peebles, J. Chipchase, D. Kirkby, M.Cope, C.H. Rodeck.*
- Short Term Variation (STV) in Centralized Fetuses. *S.C. Cha, O.T. Toma, G.O. Braia, M.A. Lopes, M.B. Carvalho.*
- Longitudinal Fetal Growth-Velocity and Boundaries. *N. Demianczuk, D. Mayes, P. Hooper, X. Xiong.*
- Absent Umbilical Artery End-Diastolic Flow is Associated with Shortened Diagnosis-to-Delivery Interval in Preeclampsia. *N. Naccasha. \*, S. Blackwell, M.E. Redman, S.M. Berry.*
- Prediction of Preeclampsia by Doppler of Uterine Artery at 14 Weeks Gestation. *S.C. Cha, D. Pedreira, O.T. Toma, G. Braia, A. Yamasaki.*
- Ultrasound Surveillance in Red Cell Alloimmunization. *A. Roberts.*
- Screening for Major Congenital Cardiac Defects with Fetal Nuchal Translucency and Ductus Venosus at 10-14 Weeks of Gestation. *R. Favre, Y. Cherif, M. Kohler, I. Jaumain, B. Ndarugirire, A. Kohler, M.C. Hunsinger, N. Bouffet, M. Tonghe, M. Cancellier, I. Nisand.*
- Screening for Down Syndrome Using a Sonographic Score of Multiple Parameters. *V. Bunduki, R. Ruano, C. Chiba, A.M.K. Igai, S. Miyadahira, M. Zugaib.*
- Ultrafast Magnetic Resonance in Fetal Structural Anomalies. *J.M.G. van Vugt, A.T.J.I. Go, A.M. Wagenvoort, F.P.H.A. Vandenbussche.*
- Comparative Study of the Frequency of Thrombogenic Factors in Spontaneous Aborting and Fertile Women. *R. Barini, E. Couto, J.M. Annichino-Bizzacchi, P. Negrão, G.N. Oliveira.*

\* Consideration for Vandenberghe-Storz Young Investigator's Award.

- Human and Ovine Cardiovascular Response to Direct Noxious Stimuli. *R.P. Smith\*, M. Jolly, S. Miller, N. Hanson, N.M. Fisk.*

**9:30 – 9:45 a.m. Break**

- Levels of Maternal Cells in Second and Third Trimester Fetuses. *S.S. Hassan\*, S.M. Berry, S.R. Chou, E. Russell, S.C. Blackwell, Z. Zhang, J. Kaplan.*
- First-Trimester Fetal Sex Determination by Maternal Blood Analysis Using a New Real-Time PCR. *J.M. Costa, A. Benachi\*, E. Gautier, J.M. Jouannic, P. Ernault, Y. Dumez.*
- Novel Technique for Simultaneous Visualization of Fetal Cell Marker and Chromosomal FISH for Prenatal Diagnosis Using First Trimester Fetal Erythroblasts in Maternal Blood. *M. Choolani, S. Kumar, H. O'Donnell, C. Campagnoli, I. Roberts, P. Bennett, N.M. Fisk.*
- Diagnostic Value of Maternal Serum Screening Over 35: Comparison of 8 Softwares. *F. Muller, S.M.C. Ngo, J.C. Thalabard, M. Dommergues.*
- Putting into Perspective the Historically Divergent Differences in Biochemical Screening Results. *M.I. Evans, J.E. O'Brien, H. Harrison, L. Chik.*
- Assessment of Fetal Rhesus D Antigen in Maternal Plasma as a Non-invasive Alternative to Cordocentesis - First Preliminary Results. *R. Zimmermann, G. Perewusnik, A. Rake, N. Avent.*
- Routine Non-invasive Prenatal Diagnosis of Fetal RhD Status and Sex by Multiplex Quantitative PCR Using Fetal DNA in Maternal Plasma. *W. Holzgreve, X.Y. Zhong, S. Hahn.*
- Amniotic Fluid Alpha-fetoprotein in Twins: Do We Have to Use Amniotic Fluid Dye Markers? *R.D. Wilson, L. Brosseuk, M-F. Delisle.*
- Complication Rate of Prenatal Invasive Procedures Performed after 21 Weeks Gestation. *A. L. Gagnon\*, M. Wong.*
- Temno Core Biopsy Needle for Fetal Skin Sampling. *M.I. Evans and M. P. Johnson.*

**Topic: Infection**

**Moderator(s): C. Rodeck and C. Weiner**

- Systemic Administration of Lipopolysaccharide (LPS) Causes Haemodynamic Disruption and White Matter Injury in the Mid-Gestation Ovine Fetus. *D.M. Peebles, J. P. Newman, S. Miller, C.H. Rodeck.*
- Free Radicals Cause Perinatal Death in Preterm Delivery Associated with Inflammation. *C.P. Weiner, I. Buhimschi.*
- Accuracy of ELISA X PCR on Cytomegalovirus (CMV) Infection on Pregnant Women. *R. Barini, S.V. Parmigiani, S.C.B. Costa.*
- Adenovirus Infection Leading to Early IUGR and Hydrocephaly: Case Report. *D.A.L. Pedreira, D.Jasinowodolinsk, A. J. Rocha, R. Schultz, M.C.N. Zerbini, S.C. Cha.*
- Positive IgM in Maternal Sera Seldom Means Acute Toxoplasmosis: Correlation with IgG Avidity and Fetal Infection. *D.A.L. Pedreira, L. Rocha, M. Snege, C. Grantato, S.C. Cha, P. Leser.*

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- Toxoplasmosis: A Tough Diagnosis with Automated Serologic Tests. *R. Barini, M. Otilia, M. Mellone, E.A.F. Silva, J. Holtz.*
- Improved Management of Congenital Toxoplasmosis Using Maternal Specific Immunoglobulin G Avidity Evaluation. *C. Hubinont, O. Donnez, P. Bernard, A. Yamgnane, J. M. Biard, G. Bigaignon.*

**12:00 Noon – 1:00 p.m.      “Harbor Light” Buffet Luncheon - Springfield Tent  
(adjacent to the Madaket Room)**

**1:00 p.m. – 4:00 p.m.      Topic: Fetal Therapy and Surgical Technology  
Moderator(s): *J. Deprest and F. Luks***

- Fetal Surgery at the Millenium. *M. R. Harrison, C.T.Albanese, D.L. Farmer R.A. Filly, P.L. Sandberg.*
- The Luck of the Draw. *M.R. Harrison, C.T. Albanese, D.L. Farmer, J. Farrell, P.L. Sandberg, S. Berman.*
- Twenty Seven Year Follow-Up of the “First” Fetal Patient Treated In Utero. *D.W. Bianchi and M.G. Ampola.*
- Experimental Models of Fetal Surgery: Biliary Atresia, Intestinal Obstruction, and Hydronephrosis with Megabladder. *S. Mancuso, N. Giuseppe.*
- Intrauterine Blood Transfusion Therapy for Fetal Homozygous alpha-Thalassemia. *D. Oepkes, W. Leung, G. Seaward, K. O'Brien, E. Kelly, G. Ryan.*
- Fetal Therapy with rhIGF-1 in a Rabbit Model of Intrauterine Growth Retardation. *E. D. Skarsgard, L. A. Amii, R.A. Dimmitt, G. Sakamoto, M.E. Brindle, R. L. Moss.*
- Amnioinfusion: A Treatment of p-PROM with Oligohydramnios in the Second Trimester of Pregnancy. *S. Mancuso, et al.*
- Chorioamniotic Membrane Separation Following Fetal Surgery. *R. Sydorak, S. Hirose, K.J. Tsao, P. Sandberg, R. Filly, M. Harrison, D. Farmer, C. Albanese.*
- Treatment of Spontaneous Rupture of Membranes: the Amniograft. *R.A. Quintero.*
- Endoscopic Closure of Preterm PROM with Fibrin Sealant. *B.K. Young, H. Roque, C.J. Lockwood, I. Timor, E. Funai, R. Demopolous.*

**➤ 2:30 p.m. – 2:45 p.m.      Break**

**➤ 2:45 p.m. – 4:00 p.m.      Topic: Fetal Therapy & Surgical Technology  
(continued)**

- Prenatal Diagnosis of Esophageal Atresia Using Magnetic Resonance Imaging. *J.C. Langer, H. Hussain, A. Khan, R.K. Minkes, D. Gray, M. Siegel, G. Ryan.*
- In-Utero Meconium Aspiration. *B.M. Petrikovsky and L. Sichinava.*

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- Correlation of Tracheal Diameter Measured by Ultrasound and Necropsy Findings in Human Fetuses. *H. Yamamoto, A. Perales, A. Delezoide, A. Benachi, D. Van Schoubroeck, C. Colpaert, P. H. Moerman, J.A.M. Deprest.*
- Gas Amniodistention Reduces Operation Time as Compared to Fluid Amniodistention But Used Gas Determines Changes in Fetal Acid-Base Status in a Sheep Model for Fetoscopic Surgery. *E. Gratacós, J. Wu, F. Bonati, R. Devlieger, T. Lerut, K. Vanamo, J.A.M. Deprest.*
- Ex Vivo Testing of a Temperature and Pressure Controlled Amnioirrigator for Fetoscopic Surgery. *F. Bonati, A. Perales, E. Gratacos, P. Novak, U. Nicolini, J.A.M. Deprest.*
- Successful Procedure with Poor Outcome: Intrauterine Therapy for Facial Teratoma. *P. Johnson, M. Jolly, S. Kumar, K. Lakhoo.*
- The EXIT Procedure: Experience and Outcomes in 29 Cases. *S. Bouchard\*, M.P. Johnson, A.W. Flake, N.S. Adzick, T.M. Crombleholme.*
- Placement Directly onto ECMO during EXIT Procedure (“EXMO”) due to Pulmonary Artery AV Fistula. *C.E. Nugent, D.C. Barnhart, D. Crowley, J.D. Geiger, C.A. Gomez, A.A. Griffith, R.G. Ohye, L.H. Polley, P.A. Reynolds, M.W. Russell, D. H. Teitelbaum.*

**4:00 p.m.     Adjourn**

**Note:** Barrett Coaches will be parked at the main entrance of the Harbor House at 5:15 p.m. to transport you to *The Jetties Beach* for our Nantucket Clambake. Our IFMSS 2000 group photo will be taken upon arrival at The Jetties .

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IFMSS Scientific Presentation Sessions

Tuesday, September 12, 2000 Harbor House Conference Room

7:30 a.m. – 9:30 a.m. Topic: CNS Moderators: J. Goldberg and M. D'Alton

- Magnetic Resonance Imaging and Spectroscopy in the Developing Chick Brain During Normoxia and Moderate Hypoxia. *D.M. Peebles, S.L. Miller, J.S. Thornton, R.J. Ordidge, E.B. Cady, C.H. Rodeck.*
- Magnetic Resonance Spectroscopy to Study Maturation of the Human Fetal Brain. *R. Kok, P. van denBerg, A.vandenBergh, R. Nijland, A. Heerschap.*
- Prenatally Diagnosed Microcephaly: A Review of Etiologies. *L. Dahlgren and R.D. Wilson.*
- Correlation Between Prenatal Ultrasound Findings and Postnatal Outcome in 37 Cases of Isolated Spina Bifida Aperta. *C.F.A. Peralta, V. Bunduki, J.P. Plese, S. Miyadahira, M. Zugaib.*
- Prenatal Development of Afferent and Efferent Spinal Cord Projections in Spina Bifida Mice: Implications for Fetal Surgery. *D. Stiefel, U.G. Stauffer, A.J. Copp, M. Meuli.*
- Postnatally Treated Spina Bifida: A 17-Year Review of 300 Patients Managed at CHOP. *N. Rintoul\*, L. Sutton, J. Melchionni, N.S. Adzick.*
- In Utero Testing of Leg-withdrawal: Prediction of Ambulation in Cases of Meningomyelocele? *B.M. Petrikovsky, L. Sichinava, S. Pavlakis.*
- Surgical Technique in Fetal Myelomeningocele Repair. *W. Peacock, M.R.Harrison, D.L. Farmer, C.T. Albanese, R.A. Filly, P.L. Sandberg.*
- Head Circumference and Ventricular Size Following In Utero Closure of Myelomeningocele. *D.S. Walsh\*, M.P. Johnson, M. King, L. N. Sutton, A.W. Flake, T.M. Crombleholme, M. Barr, Jr., N.S. Adzick.*
- Repair of Myelomeningocele In Utero I.: Experimental Pathophysiology, Natural History, and Initial UCSF Clinical Experience. *D.L. Farmer, W. Peacock, M. Danielpour, P. Sandberg, B. Storrs, C.T. Albanese, M.R. Harrison.*
- Intrauterine Repair of Myelomeningocele: Identification of a Good Prognosis Group. *J.P. Bruner, N. Tulipan, G. Reed.*
- The CHOP Experience with Early Gestation Fetal Myelomeningocele Repair. *N.S. Adzick, N. Rintoul, M.P. Johnson, L.N. Sutton, A.W. Flake, T.M. Crombleholme, L. Howell.*
- A Randomized Prospective Trial for Fetal Myelomeningocele. *D. Farmer, J. Farrell, D. Glidden, C. Albanese, M. Harrison.*

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**9:30 – 9:45 a.m. Break**

**Topic: Chest**

**Moderator(s): M. Harrison and J-M Laberge**

- What is Hypoplastic in CDH-induced Pulmonary Hypoplasia? *Y. Kitano, N.S. Adzick, A.W. Flake.*
- Short-term Fetal Tracheal Occlusion: Pulmonary Vascular Maturation Despite Absence of Lung Growth. *F.I. Luks, M.E. DePaepe, Y.K. Wild, G.J. Piasecki.*
- Lung Growth and Function After Reversible Tracheal Occlusion in the CDH Lamb Model. *I. Bratu, H. Flageole, J-M. Laberge, L. Kovacs, D. Faucher, M-F. Chen.*
- Normal and Impaired Fetal Lung Remodeling: Role of Fas/FasL-mediated Apoptosis. *M.E. DePaepe, A.M. Lesieur-Brooks, D.M. Mills.*
- Upregulation of Keratinocyte Growth Factor in the Tracheal Ligation Lamb Model of Congenital Diaphragmatic Hernia. *A. J. McCabe, U. Carlino, B.A. Holm, P.L. Glick.*
- Myeloperoxidase Activity as a Lung Injury Marker in the Lamb Model of Congenital Diaphragmatic Hernia (CDH). *A.J. McCabe, B.A. Holm, P.L. Glick.*
- Congenital Diaphragmatic Hernia: Audit of a Panel of Prenatal Prognostic Factors. *D.M. Mahieu-Caputo, M.C. Aubry, Y. Dumez, M. Dommergues.*
- Assessment of Fetal Lung Volumes and Liver Herniation with Magnetic Resonance Imaging in Congenital Diaphragmatic Hernia. *D.S. Walsh\*, A.W. Hubbard, O.O. Olutoye, T.M. Crombleholme, A.W. Flake, M.P. Johnson, N.S. Adzick.*
- CDH: Update of the Human In Utero Tracheal Clip Experience. *A.W. Flake, N.S. Adzick, T.M. Crombleholme, L. Howell, M.P. Johnson.*
- Minimally-invasive Tracheal Occlusion in the Treatment of Congenital Diaphragmatic Hernia. *R.A. Quintero.*
- Successful Thoraco-amniotic Shunting of Multilocular Macrocystic Congenital Cystic Adenomatoid Malformation (CCAM) in Hydropic Fetuses. *G. Ryan, D.Oepkes, D. Gibbs, R. Windrim, G. Seaward, J. Langer.*
- Pulmonary Sequestration – A Marker for Aneuploidy. *R.W. Driggers, G. Stetten, C. Escallon, M. Lantz, J. McMichael, E. Perlman, K.J. Blakemore.*

**Topic: Abdomen**

**Moderator(s): P. Soothill and R. Zimmermann**

- Variable Outcome with Fetal Liver Cysts. *J-M. Laberge, S. Khalife, I. Bratu, Y. Patenaude, V. Desilets.*

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- Very Large Fetal Sacrococcygeal Teratomas: Are There Benefits to Early Delivery that Outweigh the Risk of Prematurity? *C. Holcroft, E. Gurewitsch, A. Fischer, R. Driggers, F. Northington, K. Blakemore.*
- Severe Complications Following Radiofrequency Ablation of Fetal Sacrococcygeal Teratoma. *F. Arias.*

<b>12:00 Noon – 1:00 p.m.      “Lightship Basket” Buffet Luncheon -      Springfield Tent</b> (adjacent to the Madaket Room)
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- Fetal Redistribution Phenomenon – Does It Contribute to Gut Jeopardize? *R. Achiron, R. Orvieto, R. Mazkereth, S. Lipitz, Z. Rotestein.*
- Correlation of Amniotic Fluid Inflammation with Neonatal Outcome in the Human Foetus Affected with Gastroschisis. *D. Luton, J.L. Voluménie, P. deLagausie, L. Burc, J. Guibourdenche, E. Vuillard, M. Peuchmaur, F. Beaufiles, J. Navarro, O. Sibony, P. Blot, Y. Aigrain, J.F. Oury.*
- Modification of Extra Abdominal Mesenteric Arterial Flow During Amnioinfusion Procedure in Gastroschisis Affected Fetuses. *D. Luton, J.L. Voluménie, P. deLagausie, L. Burc, J. Guibourdenche, E. Vuillard, M. Peuchmaur, F. Beaufiles, J. Navarro, O. Sibony, P. Blot, Y. Aigrain, J.F. Oury.*
- Sumtin ➤ Do Amniotic Fluid Interleukins Reflect the Condition of the Bowel in Fetal Gastroschisis? *M.C.H. Haeusler, G. Fasching, J. Mayer, G. Schimpl, J. Haas, P. Puerstner.*
- Gastroschisis in the Fetal Lamb. Influence of Amnioinfusion and Experimental Oesophageal Ligature. *D. Luton, P. deLagausie, L. Burc, J. Guibourdenche, M. Peuchmaur, E. Vuillard, O. Sibony, P. Blot, Y. Aigrain, J.F. Oury.*
- X ➤ Aggressive Management of Intral ~~Abdominal~~ Gastroschisis Diagnosed Prenatally. *P. Johnson and K. Lakhoo.*

<b>Topic: Renal</b>	<b>Moderator(s): M. Dommergues and M. Johnson</b>
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- Fetal Serum Beta-2-Microglobulin to Assess Renal Function in Fetuses with Renal Pathology. *U. Nicolini.*
- Fetal Renal Biopsies are Useful for Outcome Prediction in Obstructive Uropathy. *V. Bunduki, J. Miguez, R. Schultz, S. Miyadahira, M. Zugaib.*
- Obstructive Uropathy in the Fetal Lamb: More Questions than Answers. *K.C. Pringle, J. Zuccollo, H. Kitagawa.*
- Decompression of Partial Bladder Outlet Obstruction In Utero Stimulates Renin and Attenuates Transforming Growth Factor -β1 (TGF-β1) Expression in Fetal Sheep. *Y. Lakshmanan, L. Tran, A.Christal, C.A. Peters.*
- Pathophysiologic Mechanisms in Bladder Development: Impact on Techniques of Fetal Bladder Outlet Obstruction. *C.A. Peters.*
- One-way Drainage for Posterior Urethral Valves in Fetal Lamb Model. *A. Paye, S. Beaudoin, F. Bargo.*

\* Consideration for Vandenberghe-Storz Young Investigator’s Award.



- Fetal Cystoscopic Therapy for Posterior Urethral Valves (PUV). *A.W. Welsh\**, *S. Agarwal*, *M. Jolly*, *S. Kumar*, *N.M. Fisk*.

**2:30 p.m. – 2:45 p.m.**

**Break**

- A Severe Case of Prune Belly with an Unusual Pathogenesis. *C. Holcroft*, *R.W. Driggers*, *T. Nguyen*, *G. Hutchins*, *K. Blakemore*.
- Fetal Bladder Outlet Obstruction Presents Too Late for Intervention. *S. Craigo*, *B. Berlin*, *T. Marino*.

**Topic: Stem Cells**

**Moderator: *A. W. Flake and K. Blakemore***

- Functional Characteristics of Fetal Hematopoietic Stem Cells. *G.S. Pahal*, *E.R. Jauniaux*, *A. Thrasher*, *C. Kinnon*, *C.H. Rodeck*.
- Ontogenic Variations of Cytokines. *M. Michejda*, *A-G. Wu*, *G.J. Tchabo*, *J.A. Bellanti*.
- Mesengenic Potential of Circulating First Trimester Stromal Cells. *C. Campagnoli*, *I.A.G. Roberts*, *S. Kumar*, *P.R. Bennett*, *I. Bellantuono*, *N.M. Fisk*.
- Factor VIII Production from Murine Bone Marrow Stem Cells. *R. Williamson*, *Y. Kang*, *B. Yang*, *G. Wang*, *P. McCray*.
- Prenatal Transplantation of Stem Cells. *N. Giuseppe* and *S. Mancuso*.
- Rapid Transition of FRESH Human Umbilical Cord Blood Mononuclear Cells to Fetal Blood Following Injection into the Exocoelomic Cavity of the Rabbit. *J. Wu*, *G. Bries*, *W. Scheers*, *E. Gratacos*, *M. Boogaerts*, *J. Deprest*.
- In Utero Stem Cell Transfer - An Animal Model. *S. Schatt*, *C. Troeger*, *D. Surbek*, *S. Hahn*, *W. Holzgreve*.
- Preimmune Administration of Adeno-Associated Virus or Adenovirus Allows Postnatal Readministration Without a Neutralizing Antibody Response. *S. Bouchard\**, *T.C. MacKenzie*, *S. Hayashi*, *N. Chirmule*, *A.W. Flake*.
- Human Mesenchymal Stem Cells Persist and Migrate to Tissues of Injury in the Prenatal Lamb Recipient. *T.C. MacKenzie\**, *C.R. Pameijer*, *G. Almeida-Porada*, *R. Deans*, *A.W. Flake*.
- “Reverse” Stem Cell Therapy: Fetal Cells in Maternal Organs Post-Delivery. *D.W. Bianchi*, *K.L. Johnson*, *B. Srivatsa*, *O. Samura*, *S. Srivatsa*, *S.L. Lee*, *J.L. Nelson*, *M. McDonnell*.

**Topic: Ethics**

**Moderator: *F. Chervenak***

- The Problems with Trials. *M. R. Harrison*, *D.L. Farmer*, *C.T. Albanese*, *P.L. Sanberg*, *R.A. Filly*, *D. Glidden*.
- Fetal Surgery, Therapeutic Validity, Patient Preference: Finding the Right Balance. *M.J. Bliton*.

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- > The Ethics of Fetal Research: From a Protective to a Balanced Approach. *F. A. Chervenak and L. McCullough.*

**5:00 p.m.                      Adjourn**

**IFMSS 2000 Dinner** Cocktails will begin at 6:45 p.m. in the *Garden Patio*. In the event of inclement weather, cocktails will be served in the *Springfield Tent* (adjacent to the Madaket Room.) Dinner will be served in the *Harbor House Main Dining Room* at 7:30 p.m.

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IFMSS Scientific Presentation Sessions

Wednesday, September 13, 2000 Harbor House Conference Room

7:30 a.m. – 11:30 a.m. Topic: Heart Moderator(s): R. Welch and J. Rychik

- > Prenatal Diagnosis of Congenital Heart Disease and Intrauterine Fetal Growth Restriction. *L.L. Simpson, A. Perez-Delboy, L.D.Allan.*
- > Doppler Tissue Imaging of the Fetal Heart: Methods and Pitfalls. *H. Gardiner and A. Welsh.*
- > Cardiac Hemodynamics During Human Fetal Surgery. *J. Rychik, Z-Y. Tian, M.S. Cohen, W.T. Mahle, C.D. Kurth, L. Howell, A. Flake, T. Crombleholme, M. Johnson, N.S. Adzick.*
- > Prenatal Ultrasound May Predict Fetal Response to Therapy in Non-hydropic Foetuses with Supraventricular Tachycardia. *J.M. Jouannic, J.LeBidois, L. Fermont, D. Mahieu, Y. Dumez, M. Dommergues.*
- > Tachycardia in One Fetus in a Twin Pregnancy: Successful Treatment with Flecianid. *C. Jörgensen, G. Lingman, P. Munkhammer, K. Hanseus.*

Topic: Troubles With Twins Moderator(s): N. Fisk and T. M. Crombleholme

- 8:10 > Delayed Delivery of the Second Twin. *N. Ginsberg*
- 8:18 > The Natural History of Prenatally Diagnosed Conjoined Twins. *T.C. MacKenzie\*, M.P. Johnson, A.W. Flake, N.S. Adzick, T.M. Crombleholme.*
- 24 > Twin-Twin Transfusion Syndrome in a Monochorionic, Monoamniotic Pregnancy. *S. Hirose, R. Sydorak, K. Tsao, V. Feldstein, M. Norton, C. Albanese, M. Harrison, D. Farmer.*
- 34 > Intrauterine Rescue Transfusion in Monochorionic Multiple Pregnancies with Recent Single Intrauterine Death. *M.J.O. Taylor\*, S. Tanawattanacharoen, E.A. Letsky, P.M. Cox, F.M. Cowan, N.M. Fisk.*
- 42 > Outcomes Following Selective Bipolar Cord Cauterization in Complicated Monochorionic Pregnancies. *M. P. Johnson, T. M. Crombleholme, M. King, L. Howell, A.W. Flake, N.S. Adzick.*
- 9:36 BB → Bipolar Coagulation of the Umbilical Cord in Severe Twin to Twin Transfusion Syndrome. *S. Lipitz and R. Achiron.*
- 9:38 BB > Experience of Cord Coagulation in 17 Cases of Complicated Monochorionic Twin Pregnancy. *U. Nicolini.*
- 9:44 > Selective Termination in Complicated Monochorionic Multifetal Pregnancies Using Bipolar Coagulation. *S. Hassan, R. Leach, H.M. Lee, F. Qureshi, S.M. Jacques, M.C. Treadwell, R. Romero, M.I. Evans, A. Johnson.*

\*Consideration for Vandenberghe-Storz Young Investigator's Award.

- 9:52 > Cord Occlusion for Stage 3/4 Twin-Twin Transfusion Syndrome. *M.J.O. Taylor\*, S. Shalev, S. Tanawattanacharoen, M. Jolly, S. Kumar, M. L. Denbow, P.M. Cox, N.M. Fisk.*

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- 10:00 > Alternative Energy Sources for Cord Coagulation. *A. Perales, M. Rheinwald, R. Devlieger, J.M. Biard, J. Deprest.*
- 10:10 > Pathogenesis of Twin-Twin Transfusion Syndrome: A New Cardiovascular Theory Supported by a Hormonal Approach. *D. Mahieu-Caputo, D. Joly, M-C. Gubler, F. Muller, Y. Dumez, M. Dommergues.*
- 16 > 3D Visualization of Monochorionic AA and AV Anastomoses In Vivo. *A.W. Welsh\*, M.J. Taylor, K. Humphries, N.M. Fisk.*
- 24 > ~~Preoperative Planning with MRI-based Virtual Navigation in Twin-Twin Transfusion Syndrome.~~ *F.I. Luks, S.R. Carr, B. Ponte, J.M. Rogg, T.F. Tracy, Jr.*
- 27 ~~30~~ > A Comparison of Osmolality, Electrolytes, and Oncotic Pressure Between Donor and Recipient Fetuses in Pregnancies Complicated by Twin-Twin Transfusion Syndrome. *S.S. Hassan\*, S.C. Blackwell, N. Naccasha, M. Redman, J.S. Refuerzo, S.M. Berry.*
- 10:30 > Amnioreduction in Twin-Twin Transfusion Syndrome - A Multicenter Registry. *G. Mari for the International TTTS Registry.*

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- 8:50 > Septostomy Associated with Amniodrainage to Treat Twin-Twin Transfusion Syndrome: Preliminary Results in a Brazilian Medical Center. *E.V. Isfer, A.C. Cavalcanti, K. J. Apezato, F.A. Porto, R.C. Sanchez.*
- 9:56 > Twin-Twin Transfusion Syndrome: A Multicenter Randomized Trial for the Evaluation of Septostomy vs. Serial Amniocentesis for Therapy. *K.J. Moise, K.F. Dorman, N.M. Fisk, M. Taylor, R.D. Wilson, A. Gagnon, J.E. Dickinson, A. Scissione, M.A. Belfort, U. Chitakara, I.A. Wilkins, R.O'Shaughnessy, D.W. Skupski.*
- 9:00 > Selective Fetoscopic Laser Treatment of TTTS Refractory to Serial Amnioreduction or Microseptostomy. *T.M. Crombleholme.*
- 9:14 > Selective Laser Photocoagulation of Communicating Vessels in Severe Twin-Twin Transfusion Syndrome. *R.A. Quintero.*
- 9:32 > Selective Laser Photocoagulation of Communicating Vessels in Selective Intrauterine Growth Retardation in Monochorionic Twins. *R.A. Quintero.*

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- 10:40 > Almost an Acardiac-Clues to the Pathogenesis of Acardiac Twinning. *R.W. Driggers, K.J. Blakemore, K.E. Ackerman, C. Bird, G.M. Hutchins.*
- ~~10:40~~ > Bipolar Cautery for Selective Termination of an Acardiac Twin: Timing, Technique, and Fetal Consequences. *A.Rijhsinghani, J.Yankowitz.*
- 10:56 > Selective Termination of Acardiac/Acephalic Twin by Radiofrequency Ablation. *K.J. Tsao,\* S. Hirose, R. Sidorak, P.L. Sandberg, R.A. Filly, C.T. Albanese, M.R. Harrison, D.L. Farmer.*

**11:30 a.m.- 12:15 p.m. Business Meeting & Young Investigator's Award Presentation**  
**[Boxed Lunches will be available at the Springfield Tent adjacent to the Madaket Room.]**

\*Consideration for Vandenberghe-Storz Young Investigator's Award.