

SMFM SCIENTIFIC FORUMS

WEDNESDAY, FEBRUARY 7

Scientific Forums focus on scientific subject areas within the specialty, academic areas immediately related to MFM, and the technologies that support MFM practice. Scientific Forums and Special Focus Groups meet in conjunction with the SMFM Annual Meeting however the opinions and conclusions expressed in these summaries are not necessarily the views of the Society.

COMPUTERS IN MATERNAL-FETAL MEDICINE

Leaders: Sean C. Blackwell MD, Leo Brancazio MD

Description: The scientific program will consist of presentations from clinicians, scientists, and inventors who will share with the audience their work, products, and ideas. In particular computer simulation, web-based applications, and novel use of information technology as each relates to maternal fetal medicine will be highlighted. Presenters will (a) give a high-level, non-technical overview of their work (b) discuss issues related to clinical application and implementation barriers (c) summarize lessons learned and Q&A from audience.

Congenital Heart Disease/Fetal Cardiology

3:00-6:00pm

Leaders: Dev Maulik, MD and Ray Bahado-Singh, MD

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| 3:00 – 3:05 | Introduction
Dev Maulik, MD, PhD |
| 3:05 – 3:20 | MTHFR mutation and risk of congenital heart disease
Katharine Wenstrom, MD
Vanderbilt University School of Medicine |
| 3:20 – 3:25 | Question & Answer Period |
| 3:25 – 3:40 | New markers for first trimester congenital heart disease screening
Ray Bahado-Singh, MD
Wayne State University School of Medicine |
| 3:40 – 3:45 | Question & Answer Period |
| 3:45 – 4:00 | A systematic approach to the examination of the fetal heart using STIC and tomographic ultrasound imaging – Normal and abnormal cases
Jimmy Espinoza, MD
Wayne State University School of Medicine |
| 4:00 – 4:05 | Question & Answer Period |
| 4:05 – 4:20 | Automated cardiac imaging
Alfred Abuhamad, MD
Eastern Virginia Medical School |
| 4:20 – 4:25 | Question & Answer Period |
| 4:25 – 4:40 | Clinical applications of precordial venous Doppler ultrasound
Ahmet Baschat, MD
University of Maryland School of Medicine |
| 4:40 – 4:45 | Question & Answer Period |
| 4:45 – 5:00 | Fetal cardiac surgery
Rubén Quintero, MD
University of South Florida College of Medicine |
| 5:00 – 5:05 | Question & Answer Period |
| 5:05 – 5:20 | Advances in real-time 3D fetal echocardiography with 2D matrix technology
Dev Maulik, MD, PhD
Stony Brook University School of Medicine |

5:20 – 5:25 Question & Answer Period
5:25 – 6:00 OPEN DISCUSSION

Critical Care in Obstetrics
Leader: Stephanie R. Martin, D.O.

3:00pm

- I. Introduction and Welcome to Participants
This session is designed to encourage group participation and discussion around unusual critical care issues in obstetrics.
- II. Case presentations and group discussion, topics TBA
- A. **Amy Rouse, MD**
Maternal-Fetal Medicine Fellow
Los Angeles County Women's and Children's Hospital, University of Southern California
Los Angeles, CA
- Faculty Sponsor:**
T. Murphy Goodwin, MD
Professor of Obstetrics & Gynecology
Chief of the Division of Maternal-Fetal Medicine University of Southern California
Los Angeles, CA
- B. **Julia Feldmeir, MD**
Second Year Resident
Sacred Heart Women's Hospital
Florida State University at Pensacola
- Faculty Sponsor:**
James A. Thorp, MD
Director, Regional Perinatal Center
Sacred Heart Women's Hospital
Clinical Professor, Departments of Ob/Gyn
Florida State University at Pensacola and
University of Florida - Pensacola
- C. **Wade Schwendemann, MD**
First Year Maternal-Fetal Medicine Fellow
Mayo Clinic College of Medicine
Rochester, MN
- Faculty Sponsor:**
Carl H. Rose, MD
Maternal Fetal Medicine
Assistant Professor, Department of Obstetrics and Gynecology
Mayo Clinic, Rochester, MN

Conclusion/Closing Remarks: Stephanie R. Martin, D.O.

Diabetes
Leader: Deborah Conway, MD

3:00-6:00pm

Topic: Stillbirth in the Diabetic Pregnancy
"Postmortem and Placental Findings: Clues to the Pathophysiology of Stillbirth in the Diabetic Pregnancy"
Carolyn Salafia, MD
Perinatal Pathologist
EarlyPath Pathology Services
Larchmont, NY

“Stillbirth in the Diabetic Pregnancy: The Scope of the Problem and Clinical Associations”

Marshall Carpenter, MD

Perinatologist

Director, Division of Maternal-Fetal Medicine

Women & Infants Hospital of Rhode Island

Genetics

3:00-6:00pm

Leaders: George P. Henry, MD and John Larsen, MD

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| 3-3:30pm | Follow up of Abnormal 1 st Trimester Screening when Chromosomes are Normal
<i>Shraga Rottem, MD DSc</i> |
| 3:30-4pm | Frontal Maxillo – Facial Angle (FMFA) to predict Trisomy 21
<i>Jiri Sonek, MD</i> |
| 4-4:30pm | Protocols for Use of Nasal Bone and Fetal Cardiac Imaging in Screening for Genetic Disorders
<i>Jon Hyett, MD</i> |
| 4:30-5pm | Use of Trophoblastic Cells for Prenatal Diagnosis
<i>Karen Filkins, MD</i> |
| 5-5:30pm | Fibrin Glue for Management of Amniorrhexis after Genetic Amniocentesis
<i>Walter Morales, MD, PhD</i> |
| 5:30-6pm | Clinical Indications for Microarray CGH in Prenatal Diagnosis
<i>Lisa Shaffer, PhD</i> |
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Hypertension in Pregnancy

3:00pm

Leaders: Robert Powers, PhD, Peter von Dadelszen, MD and Thomas Easterling, MD

- I. The CHIPS Pilot Trial (Control of Hypertension in Pregnancy Study)
Laura A. Magee, MD., University of British Columbia
- II. The NICHD/NHLBI Combined Antioxidant and Preeclampsia Prediction Study (CAPPS)
Les Myatt, PhD., University of Cincinnati
- III. Bi-National Trial of Antioxidant Prophylaxis in Pregnancy (BINTAPP)
William Fraser, M.D., M.Sc., FRCSC, Université de Montréal
- IV. Clinical Utility of Uterine Artery Doppler in Preeclampsia
Alessandro Ghidini, MD., Inova Alexandria Hospital

Questions and Answers

- V. Business meeting of the North American Society for the Study of Hypertension in Pregnancy
Peter von Dadelszen, MD., President
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Infections and Inflammation in Pregnancy

3:00-6:00pm

Leader: Hyagriv Simhan, MD

3:00-3:50 Diagnostic Amniocentesis for Preterm Labor and Preterm PROM: A Debate

Pro: Brenna L. Anderson, M.D., M.Sc.

Brown University
Providence, RI
Con: R. Phillips Heine, M.D.
Duke University
Durham, NC

3:50-4:05 Question and Answer/Discussion

4:05-4:50 Animal Models for Inflammation and Fetal Injury: Strengths and Limitations

Michal A. Elovitz, M.D.
University of Pennsylvania School of Medicine
Philadelphia, PA

4:50-5:00 Question and Answer/Discussion

5:00-5:45 Group B *Streptococcus* Screening and Prophylaxis: An Update

Rodney K. Edwards, M.D., M.S.
University of Florida
Gainesville, FL

5:45-6:00 Question and Answer/Discussion

Maternal-Fetal Surgery
Leader: Robert Ball, MD

3:00-6:00pm

1. Areas of current research and ideas for new initiatives. (20mins with 10mins for discussion)
Alan Flake
2. The fetal lung as target for fetal therapy. (20mins with 10mins for discussion)
Jan Deprest
3. Update on the MOMS trial. (20mins with 10mins for discussion)
Cathy Spong
4. Summary of TTTS Symposium, Paris May 2006. (20mins with 10mins for discussion)
Yves Ville
5. Lessons learned from the TTTS trial. (20mins with 10mins for discussion)
Tim Crombleholme
6. NAFTNET update. What projects are we involved in? (20mins with 10mins for discussion)
Mark Johnson

Obstetric Medicine

3:00-6:00pm

Leaders: Thomas Goodwin, MD and Raymond Powrie, MD

T. Murph Goodwin (MFM)
Professor of Obstetrics and Gynecology
University of Southern California

Raymond Powrie (INT MED)
Associate Professor of Medicine and Ob/Gyn
Women and Infants Hospital of Rhode Island, Brown University

This session is designed to promote collaborative multidisciplinary care of women with medical problems in pregnancy through clinical and scientific interactive discussion. It is jointly organized by the Society of Maternal Fetal Medicine (SMFM), the North American Society of Obstetric Medicine (NASOM) and the Society of Obstetric Anesthesiologists and Perinatologists (SOAP).

3:00pm Opening remarks

3:10pm LECTURE: Points of conflict between anesthesiologists and providers caring for medically complicated pregnancies

3:30pm DISCUSSION: Everything you always wanted to know about Obstetric Anesthesiology but were afraid to ask

SPEAKER AND DISCUSSANT:

Dr Joanne Douglas, (Obstetric Anesthesia)

Professor of Anesthesiology at the University of British Columbia and BC Women's Hospital and previous president of the Society of Obstetric Anesthesiologists and Perinatologists (SOAP)

3:50pm LECTURE: Strategies and goals to treat postpartum hypertension-how to get these patients home and know they are safe

4:15pm DISCUSSION

Speakers and discussants:

Dr Peter von Dadelszen (MFM)

Associate Professor of Obstetrics and Gynecology

University of British Columbia and BC Women's Hospital

Internal Medicine speaker to be announced

4:35pm CASE DISCUSSION: Two interesting endocrine cases

5:05pm DISCUSSION: 'Ask the endocrinologist' (bring your questions and cases)

Discussants:

Martin Montoro (Endocrinology)

Professor of Medicine

University of Southern California

Women's Hospital, Los Angeles County and USC Medical Center

Erin Keely (Endocrinology)

Associate Professor of Medicine

Ottawa Hospital, University of Ottawa

T. Murph Goodwin (MFM)

Professor of Obstetrics and Gynecology

University of Southern California

5:30pm Discussion regarding future of this forum and how to promote multidisciplinary collaboration

6:00pm Session concluded

Perinatal Epidemiology

3:00-5:00pm

Leaders: Anthony Odibo, MD, MSCE and David Stamilio, MD, MSCE

Topic: Predicting Risks and Measurements of Perinatal Outcomes.

Learning Objectives:

1. To understand the commonalities and differences in ratios expressing the relative chance of an event, specifically relative risk, odds ratios and likelihood ratios
2. To understand how a likelihood ratio based model can be used to provide a summary estimate of absolute risk of an event, using the example of cesarean section and VBAC.
3. Consideration of appropriate denominator for outcomes in perinatal research
4. Understanding of appropriate comparison/control groups in perinatal research

Schedule:

1. Introduction to program 3:00 – 3:15pm
David Stamilio, MD, MSCE
Washington University in St Louis,
Missouri
2. Predicting the risk of cesarean section among women 3:15 – 3:45pm

Attempting VBAC
Gordon Smith, MD, PhD
Department Head, Cambridge University
Cambridge, UK

Questions and Answers

3:45 – 4:00pm

3. Measuring Perinatal Outcomes: Methodologic Issues

4:00 – 4:30pm

Aaron Caughey, MD, MPH, PhD
Department of Obstetrics, Gynecology, and
Reproductive Sciences, University of California,
San Francisco, San Francisco, CA

Questions and Answers

4:30 – 4:45pm

4. Closing remarks

4:45 – 5:00pm

Anthony Odibo, MD, MSCE
Washington University in St Louis,
Missouri

Pharmacology in Pregnancy

3:00-5:00pm

Leader: Steve Caritis, MD

1. Sex and Rock and Roll, but not Drugs? Drug Studies in Pregnancy- Jason Umans, MD
2. The Use and Misuse of Tocolytics: Are we Helping or Harming our Patients? –Steve Caritis, MD
3. Why is the only proven-effective drug for hyperemesis not available in the US? –Gideon Koren, MD

A question and answer session will follow each 30 minute lecture.

Preterm Labor

3:00pm

Leader: Roberto Romero, MD

Progesterone Administration to Prevent Preterm Birth

1. The Role of Progesterone in Pregnancy Maintenance and Parturition - Dr. Roberto Romero, Perinatology Research Branch, NICHD, NIH, DHHS
2. 17 Alpha-Hydroxyprogesterone Caproate for the Prevention of Preterm Birth - Dr. Paul Meis, Wake Forest University
3. ACOG Practice Bulletin and Current Practice- Dr. Vincenzo Berghella, Thomas Jefferson University
4. Analysis of the Data Presented to the FDA for Consideration of the Approval of 17 Alpha-Hydroxyprogesterone Caproate - Dr. Barbara Wesley, Food and Drug Administration, DHHS
5. Other Trials of Progesterone or 17 Alpha-Hydroxyprogesterone Caproate to prevent preterm birth:
 - a. U.S. Trial: Dr. David Lewis, Louisiana State University
 - b. United Kingdom Trial in Women With a Short Cervix: Eduardo Fonseca, University of Sao Paulo Medical School, Brazil

6. General Discussion

Ultrasound

3:00-6:00pm

Leader: Lawrence Platt, MD

Topic: Clinical Pearls and Facts for the MFM Practice

Introduction; *Lawrence Platt, MD*

Summary of the NICHD Workshop on Imaging in Obstetrics; *Josh Copel, MD*

What's new and important in 3/4 D Technology for the MFM specialist? *Lawrence Platt, MD*

The Fuss and know how about the Z Score; *Greg Devore, MD*

VCAD. Automating your ultrasound study; *Alfred Abuhamad, MD*

Optimizing the Genetic Sonogram; *Greg Devore, MD*

Tricks in diagnosing Cleft lip and Cleft palate: You will flip over this! *Lawrence Platt, MD*

An Update on QA in The NTQR and accreditation in the US (AIUM); *Alfred Abuhamad, MD*

A question and answer period will follow each lecture.

International Society of Perinatal Obstetricians

Scientific Presentations: Thursday, February 8 from 5:30pm – 7:30pm

President: Colm O’Herlihy, M.D.

Breakfast Meeting: Friday, February 9 from 7:00am – 8:00am

President: Colm O’Herlihy, M.D.