

## **2010 SPP Fall Perinatal Symposium, Banff, Alberta, Canada**

The Rimrock Resort Hotel

Saturday, September 4, 2010

1:00 – 5:00 pm

### **Intrauterine Procedures: Clinical Repertoire and Pathologic Consequences**

#### **Overall Objectives for Symposium**

At the conclusion of this symposium, participants will be able to:

1. Discuss the recent advances in intrauterine procedures for fetal anomalies.
2. Discuss the risks and benefits of these intrauterine procedures with respect to fetal morbidity and mortality.
3. Describe the ethics involved with the decision-making process as to whether intrauterine procedures are appropriate in specific cases.
4. Identify known pathologic lesions associated with intrauterine procedures.
5. Enumerate advances in *in utero* stem cell transplant research and potential future clinical applications.

#### **Dr R. Douglas Wilson**

##### **Intrauterine Fetal Treatment**

Objectives:

At the conclusion of this presentation, participants will be able to:

1. Discuss the fetal therapy options for monochorionic diamniotic twin conditions.
2. Discuss the experimental FETO therapy for congenital diaphragmatic hernia.
3. Identify the evidence based prenatal criteria that are required for thoraco-amniotic shunting treatment and the outcomes.
4. Discuss the RCT MOMs (Management of Myelomeningocele) that is presently enrolling fetuses into ‘gold standard’ postnatal repair/care and the ‘experimental’ *in utero* repair therapy.

#### **Dr. Alan W. Flake**

##### **Basic Science: *In Utero* Stem Cell Transplantation**

Objectives:

At the conclusion of this presentation, participants will be able to:

- 1) Describe the biological rationale for *in utero* stem cell transplantation.
- 2) Discuss the current experimental progress toward clinical application of *in utero* stem cell transplantation.
- 3) Enumerate candidate disorders that may be treatable by *in utero* stem cell transplantation in the near future.
- 4) Explain the ethical issues related to *in utero* stem cell transplantation and how they differ from postnatal stem cell transplantation.

#### **Dr. Geoff A. Machin**

##### **Placental Anatomy and Pathology of Twin Gestation**

Objectives:

At the conclusion of this presentation, participants will be able to:

1. Identify the clinical significance of differences between dichorionic and monochorionic twins.
2. Describe umbilical cord and vascular characteristics of monochorionic twin placentation.

3. Explain the principal clinical complications in monochorionic twinning.
4. Enumerate unusual anatomic variants of monochorionic twin placentas and intermediate twin types.
5. Examine monochorionic twin placentas with special emphasis on the effects of intrauterine procedures for the treatment of twin-twin transfusion syndrome.

**Dr. Amy Hereema-McKenney**

**Pathology of Fetal Surgical Intervention for Select Malformations and Tumors**

Objectives:

At the conclusion of this presentation, participants will be able to:

1. The participants will be able to enumerate the more common surgical pathology specimens received from fetal surgery.
2. The participants will be able to explain what these rare resected fetal malformations and tumors can tell us about the pathogenesis of their development.
3. The participants will be able to discuss the importance of autopsy studies on fetal surgery patients, and what they tell us about the effects of fetal surgery.