



MEDICAL  
EDUCATION  
RESOURCES, INC.  
A Non-Profit Company

**Fetal Echocardiography: an intense review course**  
**July 1-3, 2010**

**Montgomery Bell State Park/Convention Center, Burns, TN 37029**  
**1-800-250-8613**

**Target Audience**

This CME activity is intended for Medical professionals interested in fetal echocardiography including: physicians, sonographers, nurse practitioners, physician assistants, nurses and other medical professionals.

**Educational Objectives**

Upon completion of this program, participants should be able to:

- Describe the anatomy, physiology and hemodynamics unique to the fetal heart
- List the common fetal echocardiographic views and evaluation techniques
- Describe numerous congenital fetal cardiac anomalies, their ultrasound appearance and the imaging planes to identify them, the Doppler techniques used to diagnose them, their prevalence and their associated anomalies
- Relate the anatomical relationships of the cardiac chambers, valves and great vessels

**FACULTY**

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Chief Fetustician  
Inner Vision Women's Ultrasound  
Nashville, TN

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Congenital Heart Institute of Florida  
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**Pamela Ross, RDMS, RVT, RDCS**

Sonographer  
Inner Vision Women's Ultrasound  
Nashville, TN

## **SCHEDULE**

**Wednesday evening, June 30th**

**8:00 – 9:00 pm**

Mbsp Convention Center

Early registration

**Thursday, July 1**

**9:00am- 5:30pm**

Introduction to congenital heart disease

Tools for fetal echo: 2D, M-mode, Doppler

Embryology of the fetal heart

Anatomy of the fetal heart

Physiology

Cardiac scanning views

Fetal heart evaluation- First Step

Fetal heart evaluation- Second Step

Fetal heart evaluation- Third Step

Fetal heart evaluation- Fourth Step

**Thursday evening**

After dinner wine/beer and dessert reception

(Dinner is on your own and available at the Mbsp restaurant)

**Friday, July 2**

**8:00am- 4:00pm**

Epstein malformation of the tricuspid valve

Tricuspid dysplasia

Tricuspid insufficiency

Hypoplastic right heart syndrome

Tricuspid atresia

Pulmonic stenosis

Pulmonary atresia with intact ventricular septum

Premature closure of the ductus arteriosus

Premature closure of the foramen ovale

Aortic stenosis

Hypoplastic left heart syndrome

Left ventricular aneurysm

Atrial septal defects

Ventricular septal defects

Atrioventricular septal defects

Atrial septal aneurysm

Single ventricle

Double inlet single ventricle

Mitral atresia

Tricuspid atresia

**Friday 5:00**

### **PIG HEART DISSECTION**

A hands-on dissection of pig hearts will help participants get a better understanding of 3D cardiac anatomy, the relative position of the great vessels and the position of the valves. This optional event is scheduled for Friday evening before the picnic dinner at the Jeanty farm. See

picture highlights and participant testimonials from [the 2007 fetal echo course](#). Or a video from the 2009 course: <http://www.youtube.com/watch?v=XZ0BJklhrcU>

### **Friday 6:30**

Picnic dinner at the Jeanty farm- Free to course participants

Family and friends may purchase tickets that day. Children 8 and under free.

### **Saturday, July 3**

#### **8:00am – 3:00pm**

Complete transposition of the great vessels

Congenitally corrected transposition of the great vessels

Tetralogy of Fallot

Absent pulmonary valve syndrome

Double outlet right ventricle

Truncus arteriosus

Pulmonary atresia with ventricular septum defect

Coarctation of the aorta

Interrupted aortic arch

Right aortic arch

Aortic diverticulum

Double aortic arch

Aortic aneurysm

Aortic calcinosis

Heterotaxy

Anomalous pulmonary venous return

Agenesis of the ductus venosus

Persistent left superior vena cava

Cardiomyopathy

Ectopia cordis

Hemopericardium

Pentalogy of Cantrell

Tumors

Heart failure

3D / 4D Fetal Hearts

### **Physician Accreditation**

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of Medical Education Resources (MER) and Thefetus.net. MER is accredited by the ACCME to provide continuing medical education for physicians.

### **Credit Designation**

Medical Education Resources designates this educational activity for a maximum of 25 *AMA PRA Category 1 credits*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## **Nursing Accreditation**

Medical Education Resources is an approved provider of continuing education by the Colorado Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

This CE activity provides 25 contact hours. Provider approval expires July 31, 2010.

Provider approved by the California Board of Registered Nursing, Provider Number 12299, for 25 contact hours.

## **Disclaimer**

The content and views presented in this educational program are those of the faculty and do not necessarily reflect those of Medical Education Resources. The faculty is expected to indicate any unlabeled use of products which may be mentioned in their presentations. Before prescribing any medication, primary references and full prescribing information should be consulted.

## **Disclosure of Conflicts of Interest**

It is the policy of Medical Education Resources (MER) to ensure balance, independence, objectivity, and scientific rigor in all of its educational activities.

In accordance with this policy, MER identifies conflicts of interest with its instructors, planners, managers and other individuals who are in a position to control the content of an activity.

Conflicts are resolved by MER to ensure that all scientific research referred to, reported or used in a CME activity conforms to the generally accepted standards of experimental design, data collection and analysis.

## **FOOD / ALCOHOL & SOCIAL EVENTS**

- The registration fee does *not* include breakfast, lunch or dinner but there is a restaurant on the premises that will be readily available for you at meal times. The lunch buffet is approximately \$11.00.
- No alcoholic beverages are allowed on the State Park grounds in public locations. Alcohol is not sold at the MBSP.
- We will be hosting a wine/beer and dessert reception Thursday night *at the Convention Center!* Come for fun and meet the other attendees.
- Friday night at 6:30 pm, come to the picnic dinner at the Jeanty farm, only 15 minutes from the MBSP. This event is free to course participants. Family and friends may purchase tickets that day. Children 8 and under are free.

## **FEE, RECEIPT AND CANCELLATION INFORMATION**

The fee for the course is \$385. If you need to cancel your course reservation, a full refund minus a \$50 fee will be reimbursed before the meeting. No refunds will be available after May 1, 2010.

## **LOCATION**

The course will be held at the Montgomery Bell State Park/Convention Center, Burns, TN 37029 (Office 615-797-9052 - Inn 615-797-3101 -Toll Free 1-800-250-8613). The Montgomery Bell State Park (MBSP) is a BEAUTIFUL place which we know you will greatly enjoy. There is an indoor and outdoor swimming pool, golf course and a lake with paddle boats, canoes and swimming. There is no public transportation from the airport to MBSP. This is a fairly remote location so if you are attending via air travel, car rental will be necessary. The MBSP is about a 1 hour drive from the Nashville airport.

## **LODGING**

The conference will be held at the Montgomery Bell State Park's convention center. The conference center is attached to the hotel and restaurant. Rooms are being held there for us until July 5. We recommend that you make your hotel reservations soon as rooms at the Montgomery Bell State Park are limited. Please see the website below for more information.

<http://state.tn.us/environment/parks/MontgomeryBell/index.shtml>

There is one restaurant at the park which is available all day.

The MBSP has given us exceptional room rates at approximately \$90/night. When making reservations, you must say that you will be attending the fetal echo course. All course functions will happen at the MBSP.

## **CAR RENTAL AND PUBLIC TRANSPORTATION**

The Montgomery Bell State Park is about 45 miles west of Nashville so you will want to rent a car at the airport if you are flying in.

[http://www.rentadeal.com/car\\_rentals\\_nashville\\_tn\\_us\\_bna.html](http://www.rentadeal.com/car_rentals_nashville_tn_us_bna.html)

Transportation is also available through [www.supershuttle.com](http://www.supershuttle.com) 1-800-258-3826

## **DIRECTIONS TO MONTGOMERY BELL STATE PARK/CONFERENCE CENTER**

I once used map quest to visit the Montgomery Bell State Park and it took me on tiny back roads!!! Beautiful, but narrow and winding! The staff at the center recommends the following directions. Once you get into the Park you will need to look for signs leading you to the lodge and convention center.

- **FROM NASHVILLE AIRPORT**
- Take I-40 W towards Memphis, TN
- Take exit 192 (McCory Lane/Pegram)
- Turn right off the exit towards Pegram
- Go approximately 2.5 miles until you cross a railroad track
- Cross the track and turn left on Hwy 70 W
- Continue on Hwy 70 through Pegram and White Bluff (15 miles)
- The entrance to the Park will be on your left about 4 miles past White Bluff
- Once in the park, look for signs that say Inn and Conference Center
- **FROM DICKSON, TN**
- Take I-40 East towards Nashville
- Exit I-40 at exit 172 (Hwy 46 N, Dickson/Centerville)
- Take Hwy 46 N to downtown Dickson to the intersection with Hwy 70
- Turn right on Hwy 70 east
- The park will be about 3 miles on your right

## **Activities in the neighborhood for your family's 4<sup>th</sup> of July WE**

Fireworks downtown

Go canoe on the Harpeth river [foggybottomcanoe.com](http://foggybottomcanoe.com)

Great waterfall to splash and swim in at Burgess fall, Fall creeks fall

<http://www.tennessee.gov/environment/parks/BurgessFalls/>

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