Fetal Echocardiography: an intense review course
August 16-19, 2012
Montgomery Bell State Park/Convention Center, Burns, TN 37029
1-800-250-8613
Target Audience

This CME activity (Category 1 CME) is intended for medical professionals interested in fetal echocardiography including: physicians, sonographers, nurse practitioners, physician assistants, nurses and other medical professionals.

This program is designed to be a thorough review of fetal echocardiography that covers the indications, views, technique, anomalies and differential diagnosis. This year the program has been expanded to include some pediatric cardiac surgery and genetics lectures. The goal is for the audience to have solid grounds onto which they can help in their daily practice patients with possible fetal cardiac anomalies.

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
- Explain the possible surgical treatment available to the newborns
- Recognize the genetic implications of congenital heart anomalies
- Recognize the anatomical relationships of the cardiac chambers, valves and great vessels

Update of brochure: check Thefetus.net

Program Director- Philippe Jeanty, Elizabeth Newman, RDMS, Cheryl Turner, RDMS, Vickie Bolz, RDMS
Program committee: Philippe Jeanty, Ana Bircher, Elizabeth Newman, RDMS, Cheryl Turner, RDMS, Vickie Bolz, RDMS
Faculty

David P. Bichell, M.D.
Professor, Cardiac Surgery
Chief, Pediatric Cardiac Surgery
Vanderbilt University
Monroe Carell Children’s Hospital
5247 Doctor’s Office Tower
2200 Children’s Way
Nashville, TN 37232-9292

Ana Bircher, MD
Geneticist
Inner Vision Women’s Ultrasound
Nashville, TN 37203

Gregory R. DeVore, M.D. P.C.
Fetal Diagnostic Center of Pasadena
Suite 220
625 South Fair Oaks
Pasadena, CA
91105-2536

Luis Goncalves, MD
Department of Obstetrics and Gynecology
Division of Fetal Imaging
William Beaumont Hospital
Royal Oak, Michigan, USA

James Huhta, MD
Congenital Heart Institute of Florida
Tampa Bay, Florida
Professor, Women’s Health and
Perinatology Research Group,
Institute of Clinical Medicine
University of Tromso, Norway

Philippe Jeanty, MD, PhD
Chief Fetusician
Inner Vision Women’s Ultrasound
Nashville, TN 37203

Ann Kavanaugh, MD
Monroe J. Carell Jr., Children’s Hospital at
Vanderbilt
Department of Pediatrics, Division of
Cardiology
2200 Children’s Way, Suite 5230
Nashville, TN 37232

Pamela Rhodes, RDMS, RVT, RDCS
Sonographer
Inner Vision Women’s Ultrasound
Nashville, TN 37203
Schedule (Preliminary)

Thursday

7:00 – 9:00
Course registration

8:15 – 10:00   105   Min.
  Introduction to the course   Jeanty   5
  Introduction of the speakers   Jeanty   5
  Cardiac drawings   Jeanty   30
  Introduction to congenital heart disease   Goncalves   10
  Tools for fetal echo: 2D, M-mode, Doppler   Jeanty   40
  Embryology of the fetal heart   Jeanty   15

10:00 – 10:30 Break

10:30 – 12:30   120
  Anatomy of the fetal heart   Jeanty   15
  Cardiac scanning views   Pam Rhodes   30
  Physiology of the fetal heart   Dr Kavanaugh   60
  Questions and answers   15

12:30 – 13:30 Break

13:30 – 15:45   135
  Fetal heart evaluation Step 1   Jeanty   30
  Fetal heart evaluation Step 2   Jeanty   20
  Fetal heart evaluation Step 3   Jeanty   15
  Fetal heart evaluation Step 4   Jeanty   30
  **Right Heart Anomalies**
  Ebstein malformation of the tricuspid valve   Dr Kavanaugh   45
  Tricuspid dysplasia   Dr Kavanaugh
  Tricuspid insufficiency   Dr Kavanaugh
  CME for right heart   Jeanty   5

15:45 – 16:15 Break

16:15 – 17:35   80
  **Left Heart Anomalies**
  Aortic stenosis   Goncalves   15
  Hypoplastic left heart syndrome   Goncalves   10
  Left ventricular aneurysm   Jeanty   5
  CME for left heart   Jeanty   5
  **Septal defects and Single ventricle**
  Atrial septal aneurysm   Goncalves   5
  Single ventricle   Goncalves   10
  Double inlet single ventricle   Goncalves   10
  Mitral atresia   Goncalves   10
  Tricuspid atresia   Goncalves   10
Friday

8:00 – 10:05   125

**Septal defects and Single ventricle**
- Atrial septal defects    Huhta  15
- Ventricular septal defects Huhta  15
- Atrioventricular septal defects Huhta  15
- CME for Septal defects and single ventricle Jeanty  5
- Why are VSDs missed--Improving their detection rate DeVore  45
- Hypoplastic right heart syndrome Huhta  10
- Tricuspid atresia Huhta  5
- Pulmonary stenosis Huhta  15

10:05 – 10:30 Break

10:30 – 12:20   110

- Genetic sonography: The use of Fetal Echocardiography DeVore  45
- Pulmonary atresia with intact septum Huhta  15
- Premature closure of the ductus arteriosus Huhta  20
- Premature closure of the foramen ovale Huhta  20
- Cardiomyopathy Huhta  10

12:20 – 13:15 Lunch

13:15 – 15:30   135

- Fine tuning the ultrasound machine DeVore  45
- **Heterotaxy** Jeanty  40
- CME for Heterotaxy Jeanty
- First trimester fetal echocardiography DeVore  45

15:30 – 16:00 Break

16:00 – 17:30   125

**Conotruncal Anomalies**
- The Outflow Tracts: Technique and Pathology DeVore  45
- Complete transposition of the great vessels Goncalves  15
- Congenitally corrected TGA Goncalves  5
- Tetralogy of Fallot Goncalves  15
- Absent pulmonary valve syndrome Goncalves  5
- Double outlet right ventricle Huhta  15

**Friday evening, Jeanty Farm**   60
18:30 – 19:30 Pig heart dissection at Jeanty farm
19:30 – 21:00 Picnic dinner at Jeanty farm
### Saturday

8:00 – 9:55  
<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
<th>Time</th>
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<tbody>
<tr>
<td>Truncus arteriosus</td>
<td>Huhta</td>
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<tr>
<td>Pulmonary atresia with VSD</td>
<td>Huhta</td>
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<td>CME for Cono-truncal anomalies</td>
<td>Jeanty</td>
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<tr>
<td>Coarctation of the aorta</td>
<td>Huhta</td>
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<td>Interrupted aortic arch</td>
<td>Huhta</td>
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<tr>
<td>The cardiovascular profile</td>
<td>Huhta</td>
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10:00-10:30 Break

10:30 – 12:00  
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<tr>
<th>Topic</th>
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<tr>
<td>Outcome of surgical treatment of CHD (Part 1)</td>
<td>Bichell</td>
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<td>Bichell</td>
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12:00-13:00 Lunch

13:00 – 15:15  
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<tr>
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<th>Time</th>
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<tbody>
<tr>
<td>Genetic conditions of the heart anomalies</td>
<td>Bircher</td>
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<tr>
<td><strong>Venous anomalies</strong></td>
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<tr>
<td>Anomalous pulmonary venous return</td>
<td>Jeanty</td>
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<td>Agenesis of the ductus venosus</td>
<td>Jeanty</td>
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<td>Persistent left superior vena cava</td>
<td>Jeanty</td>
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<td>CME for Venous anomalies</td>
<td>Jeanty</td>
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<td><strong>Other anomalies</strong></td>
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<td>Ectopia cordis</td>
<td>Jeanty</td>
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<td>Hemopericardium</td>
<td>Jeanty</td>
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<td>Tumors</td>
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<td>CME for Other cardiac anomalies</td>
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15:15 – 15:45 Break

15:45 – 18:00  
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<tr>
<th>Topic</th>
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<tbody>
<tr>
<td><strong>Aortic Anomalies</strong></td>
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<td>Right aortic arch</td>
<td>Jeanty</td>
<td>5</td>
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<td>Aortic diverticulum</td>
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<td>5</td>
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<tr>
<td>Double aortic arch</td>
<td>Jeanty</td>
<td>5</td>
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<td>Aortic aneurysm</td>
<td>Jeanty</td>
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<tr>
<td>Aortic calcinosis</td>
<td>Jeanty</td>
<td>5</td>
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<tr>
<td>CME for Aortic anomalies</td>
<td>Jeanty</td>
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<tr>
<td><strong>3D / 4D Fetal hearts</strong></td>
<td>Goncalves</td>
<td>45</td>
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<tr>
<td>Cardiac drawings</td>
<td>Jeanty</td>
<td>20</td>
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<tr>
<td>Closure</td>
<td>Jeanty</td>
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Joint Sponsor Accreditation Statement
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 the Colorado Foundation for Medical Care (CFMC) and Thefetus.net. CFMC is accredited by the ACCME to provide continuing medical education for physicians.

CME Credit
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 joint sponsorship of the Colorado Foundation for Medical Care, Office of Continuing Education (CFMC OCE) and TheFetus.net Foundation. CFMC is accredited by the ACCME to provide continuing medical education for physicians.

The Colorado Foundation of Medical Care designates this Live Activity for a maximum of 22.75 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Sonographer’s Accreditation
Sonographers can claim Category 1 medical CME as equivalent to SDMS CME.

Disclaimer
The content and views presented in this educational program are those of the faculty and do not necessarily reflect those of Colorado Foundation for Medical Care. 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 Colorado Foundation for Medical Care to ensure balance, independence, objectivity, and scientific rigor in all of its educational activities. In accordance with this policy, Colorado Foundation for Medical Care 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 Colorado Foundation for Medical Care 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.
- 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 $485. Includes Friday evening picnic and a pig heart (shared by 4-6 registrants). Lunches and dinners are on your own and available at the Montgomery Bell State Park Restaurant. 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, 2012.

**Registration**

You have 2 options for registration. Both registration start on line here (not open yet)

1. **Pay by credit card on theFetus.net.** You will be directed to Paypal. Paypal will send you a confirmation of your payment that you can forward or print for your business manager or other person that requires proof of your payment. Paypal will send us a confirmation. We will then confirm by email to you, that you have been registered. If you fill the registration for someone else please include YOUR and the registrant email in the appropriate fields.

2. **Pay by check.** By clicking this button, you will send us a copy of the registration. You will receive a copy of that email. When your check is ready, send the check with a paper-copy of the email within 3 weeks, so that we can match your registration and payment. Note: due to the lack of man-power, envelopes that do not contain BOTH the check AND the printout, WILL NOT be considered valid and will simply be destroyed. We will not attempt to contact you. If the envelope is complete we will send you a confirmation email. Mail your check at the address provided on the form.

Please ONLY one registrant per envelope. Do NOT pool several registrants in one mailing (well actually if you do, paper-clip the papers of each so they are easy to identify)

For all registrants the following information will have to be filled. Only completed forms will allow you to proceed.

**Participant Information:**

- Participant Last Name: **mandatory**
- Participant First Name: **mandatory**
- Participant personal e-mail **mandatory**
- Person filling the registration e-mail **mandatory**
- Phone **mandatory**
- Sonographer / Physician / other **mandatory**

- Physician specialty **optional**
- Degrees/Credentials **optional**
- Institutional Affiliation **optional**
- Address **mandatory**
- Address **optional**
- City **mandatory** State/Province **mandatory** Postal Code **mandatory**
- Country **mandatory**

**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.

Montgomery Bell State Park
1020 Jackson Hill Road
Burns, TN 37029
Office: 615-797-9052
Inn: 615-797-3101
Toll Free: 1-800-250-8613
Use the following link to make reservations and to view the website:
http://state.tn.us/environment/parks/MontgomeryBell/

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. Bring your GPS!
http://www.rentadeal.com/car_rentals_nashville_tn_us_bna.html
Transportation is also available through www.supershuttle.com 1-800-258-3826 and www.courtesylimo.com (615-456-5412) has a 10 passenger van for $150.

Directions to Montgomery Bell State Park/Conference Center
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
Pictures from previous courses


Activities in the neighborhood for your family

Go canoe on the Harpeth river foggybottomcanoe.com

Great waterfall to splash and swim in at Burgess falls, Fall Creeks falls
http://www.tennessee.gov/environment/parks/BurgessFalls/
http://www.tennessee.gov/environment/parks/FallCreekFalls/

Rock City http://www.seerockcity.com/

See stunning sandstone formations in the Big South Fork National Park
http://www.bigsouthforkpark.com/

Visit the world’s longest known cave system, Mammoth Cave National Park
http://www.nps.gov/maca/index.htm

Travel to Lynchburg to see the home of the Jack Daniel's whiskey

Beautiful Burgess Falls State Park.

Jack Daniel’s Tennessee Whiskey distillery in Lynchburg.

Tennessee Aquarium in Chattanooga.

Dr. Philippe Jeanty climbing in the Rock City.
Stunning views from the top of the Rock City 10 miles from Chattanooga.

Beautiful limestone cave system in South Kentucky, Mammoth Cave

Save paper, only print this if needed!