7th Annual

Advances in Cardiovascular Imaging and Interventions

Oct. 5 – Oct. 7, 2017

Detroit Marriott, Troy – Troy, Michigan

Educational sessions reviewing topics such as:

Right Heart Diseases
Advances in Structural Heart Disease
Advances in Cardiovascular Surgery
Advances in Cardiac Imaging
Multimodality Imaging
Novel Cardiovascular Technologies

Opening Reception and Keynote Dinner Presentation
WITH
Sherif Nagueh, M.D.
Cardiologist and Medical Director
Echocardiography Laboratory
Methodist DeBakey Heart and Vascular Center
Houston, TX
Professor of Medicine
Weill Cornell Medical College

James D. Thomas, M.D.
Director, Center for Heart Valve Disease
Director, Academic Affairs
Bluhm Cardiovascular Institute
Northwestern Memorial Hospital
Professor of Medicine, Northwestern University, Chicago, IL
Lead Scientist for Ultrasound, NASA
Past-President, American Society of Echocardiography

Thursday, Oct. 5

Course Director:
Amr E. Abbas, M.D., FACC, FSCAI, FSVM, FASE, RPVI
Director, Interventional Cardiology Research
Co-Director, Echocardiography at Beaumont
Associate Professor of Internal Medicine
Oakland University William Beaumont (OUWB)
School of Medicine

Beaumont
The 7th Annual Advances in Cardiovascular Imaging and Interventions conference is a comprehensive review of a wide myriad of cardiovascular diseases. This conference is a platform for imaging and interventional cardiologists who are involved in the care of patients with structural, ischemic and cardiomyopathy heart disease. Sessions presented by local and national experts will review novel applications and advances in 2D and 3D echo, CT and MRI, surgical and interventional therapies for patients with various heart pathologies. The conference will also focus on emerging technologies and how these technologies can be used to improve patient care in an ever changing health care world.

Objectives

As a result of attending this conference, participants should be able to:

- Discuss dilemmas in the diagnosis of valve disease
- Discuss new valve guidelines and cardiovascular therapies
- Describe advances in structural heart disease
- Identify advances in cardiovascular surgery
- Discuss 3D and multimodality imaging

Hands-on Learning Sessions

Attendees will have the opportunity to gain hands-on training during three sessions. These sessions will combine presentations by a clinical or technical expert on a specific topic with a tutorial that leads you through procedures with a particular device, piece of equipment or workstation. Don’t miss this session to sample new technology and interventions and review basic cardiac anatomy on heart specimens.

Opening Keynote Presentation, Reception and Dinner

Sherif Nagueh, M.D.
Cardiologist and Medical Director
Echocardiography Laboratory
Methodist DeBakey Heart and Vascular Center
Houston, TX
Professor of Medicine
Weill Cornell Medical College

James D. Thomas, M.D.
Director, Center for Heart Valve Disease
Director, Academic Affairs
Bluhm Cardiovascular Institute
Northwestern Memorial Hospital
Professor of Medicine, Northwestern University, Chicago, IL
Lead Scientist for Ultrasound, NASA
Past-President, American Society of Echocardiography

CME Accreditation and Credit Designation

William Beaumont Hospital is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

William Beaumont Hospital designates this live activity for a maximum of 13.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Non-physician professionals should check with their individual credentialing bodies to confirm that participation in this CME activity will be approved for credit. CME credits can be used to meet the continuing education requirements needed for Michigan physician assistant and nursing relicensure without limitation.

Acknowledgement

This conference will be partially supported by educational grants and display fees from commercial supporters.
### Schedule of Events

#### Thursday, October 5

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 p.m. – 9:00 p.m.</td>
<td>Keynote Speaker &amp; Dinner Program</td>
<td>James Thomas, M.D.</td>
</tr>
<tr>
<td>6:30 p.m. – 7:45 p.m.</td>
<td>Dinner</td>
<td></td>
</tr>
<tr>
<td>7:45 p.m. – 8:15 p.m.</td>
<td>Interventional Echocardiography: Changing Landscape</td>
<td>Sherif Nagueh, M.D.</td>
</tr>
<tr>
<td>8:15 p.m. – 8:45 p.m.</td>
<td>Diastolic Dysfunction Guidelines: Pro and Con</td>
<td></td>
</tr>
<tr>
<td>8:45 p.m. – 9:00 p.m.</td>
<td>Q&amp;A</td>
<td></td>
</tr>
</tbody>
</table>

#### Friday, October 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:15 a.m.</td>
<td>Registration/Continental Breakfast/Exhibits</td>
<td></td>
</tr>
<tr>
<td>8:00 a.m. – 10:30 a.m.</td>
<td>Session 1: Advances In Cardiovascular Imaging and Intervention</td>
<td>Moderator: James Thomas, M.D.</td>
</tr>
<tr>
<td>8:00 a.m. – 8:10 a.m.</td>
<td>Welcome &amp; Introduction</td>
<td>Amr Abbas, M.D.</td>
</tr>
<tr>
<td>8:10 a.m. – 8:35 a.m.</td>
<td>CT and Invasive FFR: All the Same, or Something Different?</td>
<td>Robert Safian, M.D.</td>
</tr>
<tr>
<td>8:35 a.m. – 9:00 a.m.</td>
<td>Cardiac MRI for Valvular Heart Disease</td>
<td>Michael Gallagher, M.D.</td>
</tr>
<tr>
<td>9:00 a.m. – 9:25 a.m.</td>
<td>Aortic Stenosis? Let the Audience and Experts Decide</td>
<td>Amr Abbas, M.D.</td>
</tr>
<tr>
<td>9:25 a.m. – 9:50 a.m.</td>
<td>Novel Applications of Myocardial Strain</td>
<td>James Thomas, M.D.</td>
</tr>
<tr>
<td>9:50 a.m. – 10:15 a.m.</td>
<td>Hemodynamic Versus Anatomical Assessment of LFLG Severe AS</td>
<td>Philippe Pibarot, DVM, Ph.D</td>
</tr>
<tr>
<td>10:15 a.m. – 10:30 a.m.</td>
<td>Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>10:30 a.m. – 11:00 a.m.</td>
<td>Break/Exhibits</td>
<td></td>
</tr>
<tr>
<td>11:00 a.m. – 12:15 p.m.</td>
<td>Session 2: Hands-on Break out Session</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cardiac Anatomy and Dissection</td>
<td>Meet Patel M.D, Dan Rothschild, M.D., Brian Renard, M.D.</td>
</tr>
<tr>
<td></td>
<td>Mechanical Circulation Support: How to Session</td>
<td>Elvis Cami, M.D., Kyle Feldman, M.D.</td>
</tr>
<tr>
<td></td>
<td>3D Echo Knobology for Sonographers</td>
<td>Nate Kerner, M.D., Sarah Karnib, M.D., Rami Khoury, M.D.</td>
</tr>
<tr>
<td>12:15 p.m. – 1:15 p.m.</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>1:15 p.m. – 3:10 p.m.</td>
<td>Session 3: Cardiovascular I</td>
<td>Moderator: Sherif Nagueh, M.D.</td>
</tr>
<tr>
<td>1:15 p.m. – 1:40 p.m.</td>
<td>Septal Reduction Therapy for HOCM: Alcohol Versus Myomectomy</td>
<td>Sherif Nagueh, M.D.</td>
</tr>
<tr>
<td>1:40 p.m. – 2:05 p.m.</td>
<td>3D Assessment of the Right Heart Valves</td>
<td>Steve Lester, M.D.</td>
</tr>
<tr>
<td>2:05 p.m. – 2:30 p.m.</td>
<td>Prosthesis Patient Mismatch: SAVR and TAVR</td>
<td>Philippe Pibarot, DVM, Ph.D</td>
</tr>
<tr>
<td>2:30 p.m. – 2:55 p.m.</td>
<td>Assessment of Mitral Regurgitation: Functional, Degenerative, and Ischemic</td>
<td>James Thomas, M.D.</td>
</tr>
<tr>
<td>2:55 p.m. – 3:10 p.m.</td>
<td>Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>3:10 p.m. – 3:30 p.m.</td>
<td>Break/Exhibits</td>
<td></td>
</tr>
<tr>
<td>3:30 p.m. – 5:30 p.m.</td>
<td>Session 4: Cardiovascular II</td>
<td>Moderator: George Hanzel, M.D.</td>
</tr>
<tr>
<td>3:30 p.m. – 3:55 p.m.</td>
<td>What’s Up the Pipeline for CV Care</td>
<td>Louis Cannon, M.D.</td>
</tr>
<tr>
<td>3:55 p.m. – 4:20 p.m.</td>
<td>Degenerated Aortic Valve Prosthesis: SAVR versus TAVR</td>
<td>Frank Shannon, M.D.</td>
</tr>
<tr>
<td>4:20 p.m. – 4:45 p.m.</td>
<td>Update on PFO Closure for Stroke</td>
<td>Amr Abbas, M.D.</td>
</tr>
<tr>
<td>4:45 p.m. – 5:10 p.m.</td>
<td>Paravalvular and Valvular Leak after TAVR, How to and what to?</td>
<td>George Hanzel, M.D.</td>
</tr>
<tr>
<td>5:10 p.m. – 5:30 p.m.</td>
<td>Q&amp;A</td>
<td></td>
</tr>
</tbody>
</table>

#### Saturday, October 7

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:15 a.m.</td>
<td>Registration/Continental Breakfast/Exhibits</td>
<td></td>
</tr>
<tr>
<td>8:00 a.m. – 10:30 a.m.</td>
<td>Session 5: Right Heart</td>
<td>Moderator: Steve Lester, M.D.</td>
</tr>
<tr>
<td>8:00 a.m. – 8:10 a.m.</td>
<td>Welcome &amp; Introduction</td>
<td>Amr Abbas, M.D.</td>
</tr>
<tr>
<td>8:10 a.m. – 8:35 a.m.</td>
<td>Right Heart Hemodynamics, Fact or Fiction?</td>
<td>Steve Lester, M.D.</td>
</tr>
<tr>
<td>8:35 a.m. – 9:00 a.m.</td>
<td>Advanced Imaging for the Right Heart</td>
<td>Karthik Ananth, M.D.</td>
</tr>
<tr>
<td>9:00 a.m. – 9:25 a.m.</td>
<td>Surgery on the Tricuspid and Pulmonic Valves, When and How?</td>
<td>Frank Shannon, M.D.</td>
</tr>
<tr>
<td>9:25 a.m. – 9:50 a.m.</td>
<td>Percutaneous Therapy for Right Heart Valves</td>
<td>George Hanzel, M.D.</td>
</tr>
<tr>
<td>9:50 a.m. – 10:15 a.m.</td>
<td>Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>10:15 a.m. – 10:30 a.m.</td>
<td>Break/Exhibits</td>
<td></td>
</tr>
</tbody>
</table>
Schedule of Events

Saturday, October 7 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Title</th>
<th>Moderator</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 a.m. – 12:35 p.m.</td>
<td>Session 6: Potpourri</td>
<td>Nathan Kerner, M.D.</td>
</tr>
<tr>
<td>10:30 a.m. – 10:55 a.m.</td>
<td>Atrial Appendage Occlusion in the era of NOACs</td>
<td>Steve Almany, M.D.</td>
</tr>
<tr>
<td>10:55 a.m. – 11:20 a.m.</td>
<td>Pregnant with Aortic Stenosis: Illustrative Cases</td>
<td>Michael Gallagher, M.D.</td>
</tr>
<tr>
<td>11:20 a.m. – 11:45 p.m.</td>
<td>CCU: Illustrative Cases of Complex Case Management with Imaging</td>
<td>Steve Timmis, M.D.</td>
</tr>
<tr>
<td>11:45 p.m. – 12:10 p.m.</td>
<td>My Most Interesting TEEs</td>
<td>Nathan Kerner, M.D.</td>
</tr>
<tr>
<td>12:10 p.m. – 12:35 p.m.</td>
<td>Q&amp;A and Closing</td>
<td></td>
</tr>
</tbody>
</table>

Faculty

Course Director

Amr E. Abbas, M.D., FACC, FSCAI, FSVM, FASE, RPVI
Director, Interventional Cardiology Research
Co-Director, Echocardiography
Beaumont Health
Associate Professor of Medicine
Oakland University William Beaumont (OUWB) School of Medicine

Course Co-Directors

Michael J. Gallagher, M.D.
Director, Advanced Cardiac Imaging
Director, Clinical Cardiology Fellowship Program
Associate Professor of Medicine
OUWB School of Medicine

George S. Hanzel, M.D.
Director, Cardiac Catheterization Laboratory
Director, Valvular & Congenital Heart Disease
Associate Professor of Medicine
OUWB School of Medicine

Guest Faculty

Karthik Ananth, M.D.
Associate Professor of Medicine
Wayne State University
Director, Nuclear Cardiology and Echocardiography Laboratory
Henry Ford Hospital
Detroit, MI

Louis Cannon, M.D.
Program Director
The Heart & Vascular Institute
McLaren Northern Michigan
Petoskey, MI

Steven J. Lester, M.D.
Associate Professor of Medicine
Consultant Cardiovascular Diseases
Associate Chair of Medicine
Chair of Innovation and Entrepreneurship
Mayo Clinic
Scottsdale, AZ

Sherif Nagueh, M.D.
Cardiologist and Medical Director
Echocardiography Laboratory
Methodist DeBakey Heart and Vascular Center
Houston, TX
Professor of Medicine
Weill Cornell Medical College

Philippe Pibarot, DVM, Ph.D.
Professor, Department of Medicine
Laval University
Quebec, QC, Canada
Chair, Canada Research Chair in Valvular Heart Diseases

James D. Thomas, M.D.
Director, Center for Heart Valve Disease
Director, Academic Affairs
Bluhm Cardiovascular Institute
Northwestern Memorial Hospital
Professor of Medicine, Northwestern University
Chicago, IL
Lead Scientist for Ultrasound, NASA
Past-President, American Society of Echocardiography

Beaumont Faculty

Steven L. Almany, M.D.
Director, Cardiac Catheterization Laboratory
Associate Professor of Medicine
OUWB School of Medicine

Elvis Cami, M.D.
Imaging Fellow

Kyle Feldman, M.D.
Cardiology Fellow

Sara Karnib, M.D.
Cardiology Fellow

Nathan J. Kerner, M.D.
Co-Director, Echocardiography Laboratory
Assistant Professor of Medicine
OUWB School of Medicine

Rami Khoury, M.D.
Cardiology Fellow

Meet Patel, M.D.
Cardiology Fellow

Daniel Rothschild, M.D.
Cardiology Fellow

Brian Renard, M.D.
Cardiology Fellow

Robert Safian, M.D.
Director, CIRC Program
Director, Interventional Cardiology Fellowship
Professor of Medicine
OUWB School of Medicine

Francis L. Shannon, M.D.
Director, Cardiovascular Research and Quality Assurance
Associate Professor of Surgery
OUWB School of Medicine

Steven B.H. Timmis, M.D.
Director, Coronary Cardiac Unit
Assistant Professor of Medicine
OUWB School of Medicine

Disclosure

All planning committee members and speakers have been asked to disclose any relevant relationships they may have with commercial companies within the past 12 months that are relevant to their presentation. The presence or absence of relationships as well as off-label discussion of products will be disclosed at the time of the conference.
**Register Today!**

Register online until September 29, 2017. After 09/29/17, you may register on-site at the Beaumont Health registration desk located outside the ballroom of the Troy Marriott.

### Fees

<table>
<thead>
<tr>
<th></th>
<th>On/Before 9/16</th>
<th>After 9/17 and On-site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attending physician</td>
<td>$350</td>
<td>$400</td>
</tr>
<tr>
<td>NP, PA-C</td>
<td>$250</td>
<td>$300</td>
</tr>
<tr>
<td>Nurses, Sonographers, Technicians</td>
<td>$195</td>
<td>$225</td>
</tr>
<tr>
<td>Resident, Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Students Must Show College ID)</td>
<td>$125</td>
<td>$150</td>
</tr>
<tr>
<td>Opening Reception &amp; Keynote Dinner ONLY (Thursday, September 29)</td>
<td>$100</td>
<td>$150</td>
</tr>
<tr>
<td>One-day Registration (Friday, September 30)</td>
<td>$150</td>
<td>$150</td>
</tr>
<tr>
<td>One-day Registration (Saturday, October 1)</td>
<td>$100</td>
<td>$100</td>
</tr>
</tbody>
</table>

Conference registration fees include access to presentations, all food and beverage events and CME credit.

### Cancellation Policy

By registering for the conference, you are indicating you have read and accept the following cancellation terms. To be valid, Beaumont Health must receive notification of your cancellation in writing. Cancellations received on or before September 9th will be refunded less a $50 administrative charge. Beginning September 9th, no refunds will be given.

**Questions:**

Contact Heart and Vascular Conferences Department
1-800-732-6368
or via email at heartandvascularconferences@beaumont.edu

**Register Online:**

http://beaumont.edu/cardiology-conferences

**GOING GREEN**

In accordance with our efforts to be environmentally responsible, we are taking a “Go Green” approach to conference materials. We will not provide printed presentation materials. Instead, you may access presentations after the conference on our website via exclusive attendee-only access.

---

**Registration Form**

- **Name:**
- **MD**
- **DO**
- **PA-C**
- **NP**
- **RN**
- **Other:**
- **Address:**
- **City:**
- **State/Province:**
- **Zip:**
- **Institution - for name badge:**
- **City, State/Province - for name badge (if different from above):**
- **Telephone:**
- **Fax:**
- **Email:**
- **Specialty:**
- **Clinical Cardiology**
- **Interventional Cardiology**
- **Family Practice**
- **Student**
- **Other:**
- **Form of Payment**
- **Check payable to Beaumont Health**
- **Credit Cards Accepted:**
- **American Express**
- **Discover**
- **MasterCard**
- **Visa**
- **Card Number:**
- **Exp. Date:** /
- **Security Code:**
- **Name on Card:**

### Registration Fees

<table>
<thead>
<tr>
<th></th>
<th>On or Before 9/16</th>
<th>After 9/17</th>
<th>#</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attending physician</td>
<td>$350</td>
<td>$400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NP, PA-C</td>
<td>$250</td>
<td>$300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nurses, Sonographers, Technicians</td>
<td>$195</td>
<td>$225</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident, Students</td>
<td>$125</td>
<td>$150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opening Reception &amp; Keynote Dinner ONLY (Thursday, October 5)</td>
<td>$100</td>
<td>$150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One-day Registration (Friday, October 6)</td>
<td>$150</td>
<td>$150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One-day Registration (Saturday, October 7)</td>
<td>$100</td>
<td>$100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**To Register**

- **ONLINE:**
  - Completed registration form and payment to:
  - Cardiac Administration
  - Beaumont Health
  - 3601 West Thirteen Mile Road
  - Royal Oak, MI 48073-8709

- **FAX:**
  - 248-898-9025

- **MAIL:**
  - 248-898-9025

**QUESTIONS?**

Contact Heart and Vascular Conferences Department
1-800-732-6368
or via email at heartandvascularconferences@beaumont.edu

**ONLINE**

Online registration will close on September 29, 2017.
After September 29th, you may register on-site at the Beaumont Health registration desk located outside the Ballroom of the Troy Marriott.

**CANCELLATION DEADLINE**

September 8, 2017.
Cancellations received on or before September 9th will be refunded less a $50 administrative charge. Beginning September 9th, no refunds will be given.
Advances in Cardiovascular Imaging and Interventions

Oct. 5 – Oct. 7, 2017
Detroit Marriott, Troy – Troy, Michigan

OPENING RECEPTION AND KEYNOTE DINNER PRESENTATION
Thursday, October 5 with

Sherif Nagueh, M.D., Cardiologist and Medical Director, Echocardiography Laboratory, Methodist DeBakey Heart and Vascular Center, Houston, TX; Professor of Medicine, Weill Cornell Medical College

James D. Thomas, M.D.: Director, Center for Heart Valve Disease; Director, Academic Affairs, Bluhm Cardiovascular Institute, Northwestern Memorial Hospital; Professor of Medicine, Northwestern University, Chicago, IL; Lead Scientist for Ultrasound, NASA; Past-President, American Society of Echocardiography

REGISTER ONLINE:
http://beaumont.edu/cardiology-conferences

Conference Location and Accommodations

The Detroit Troy Marriott is the official hotel for the Advances in Cardiovascular Imaging and Interventions conference.

During your stay, you may be contacted at:

Detroit Troy Marriott Hotel
200 West Big Beaver Road • Troy, MI 48084
Phone: 248-680-9797

The Troy Marriott is offering a group rate of $119.00 plus tax per night. To make your sleeping room reservations, please call 248-680-9797. You must identify yourself as a Beaumont Imaging Conference attendee at the time of reservation to receive the group rate.

Register Online:
http://beaumont.edu/cardiology-conferences

Hotel contracts require Beaumont Health to be financially responsible for unused sleeping rooms. The sleeping room rate covers the cost of meeting space and the labor for meeting room set up. Staying at the conference hotel also provides you with the benefit of after-hours networking and easy accessibility to the meetings and exhibits. Please help Beaumont avoid unnecessary penalties and keep registration fees low by booking your sleeping room at the Troy Marriott.