Advanced Focus Assessed Transthoracic Echocardiography (FATE) Course

JUNE 17, 2017
Hospital for Special Surgery | New York City

Jointly provided by HSS Office of Continuing Medical Education and Ultrasound Airway Breathing Circulation Dolor (USabcd).

LOCATION
Hospital for Special Surgery
Richard L. Menschel Education Center, 2nd Floor
535 East 70th Street, New York, NY 10021

STATEMENT OF NEED
Transthoracic Echocardiography (TTE) is a tool used commonly by cardiologists to answer complex clinical questions regarding a patient’s cardiovascular health; however, few physicians without formal training in cardiology utilize a focused TTE exam for its other potential benefits. A focused transthoracic echocardiography (TTE) exam has been shown to be a beneficial clinical tool for evaluating patients in the perioperative setting (pre-surgical assessment, intra-operative and post-operative management) as well as a supplement to a physical exam when attempting to optimize cardiopulmonary resuscitation. Focused TTE can be taught quickly when given adequate structure and a standardized curriculum; however, only a limited number of anesthesiologists have had an opportunity to learn this important skill because there are very few courses available to provide basic focused TTE training and even fewer are available to provide advanced training. The Advanced FATE (focused assessed transthoracic echocardiography) Hands-On Training Course will provide the opportunity for participants to learn and become certified in the Advanced FATE extended views.

TARGET AUDIENCE
This activity is targeted to anesthesiologists, emergency medicine professionals, internists and critical care physicians.

The Advanced FATE course is intended to build upon the skillsets of clinicians who already have basic transthoracic echocardiography (TTE) training. Participants should be familiar with and have experience performing the basic Focus Assessed Transthoracic Echocardiography (FATE) views (subcostal 4-chamber, subcostal IVC view, apical 4-chamber, parasternal long axis, parasternal short axis views, and pleural imaging). They should also be comfortable with M-Mode assessment for MAPSE/TAPSE, Mitral Septal Separation (MSS) and Fractional Shortening (FS). We highly recommend that any participant not comfortable with these fundamental TTE skills get formal basic TTE training prior to taking the Advanced FATE course. That will ensure they make the most out of the educational experience.

ACCREDITATION & CREDIT DESIGNATION
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Hospital for Special Surgery and Ultrasound Airway Breathing Circulation Dolor (USabcd). Hospital for Special Surgery is accredited by the ACCME to provide continuing medical education for physicians. Hospital for Special Surgery designates this live activity for a maximum of 12.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MOCA
The Advanced FATE Course meets the requirements of The American Board of Anesthesiology® Maintenance of Certification in Anesthesiology Program® (MOCA®) and MOCA 2.0® for lifelong learning and self-assessment (Part 2).

Maintenance of Certification in Anesthesiology Program® and MOCA® are registered certification marks of the American Board of Anesthesiology®.

MOCA 2.0® is a trademark of the American Board of Anesthesiology®.

SPECIAL NEEDS
Hospital for Special Surgery is accessible for individuals with disabilities or special needs. Participants with special needs are requested to contact the Office of Continuing Medical Education at 212.606.1812.

FINANCIAL DISCLOSURE
In accordance with the Accreditation Council for Continuing Medical Education’s Standards for Commercial Support, all CME providers are required to disclose to the activity audience the relevant financial relationships of the activity directors, planning committee members, presenters, authors and staff involved in the development of CME content. An individual has a relevant financial relationship if he or she has a financial relationship in any amount occurring in the last 12 months with a commercial interest whose products or services are discussed in the CME activity content over which the individual has control.

It is the policy of Hospital for Special Surgery to request all financial relationships that activity directors, planning committee members, presenters, authors and staff have with commercial interests, but to disclose to the activity audience only the relevant financial relationships.

FOR MORE INFORMATION
Go to hss.edu/cme for a complete calendar of scheduled live and online CME activities.

This course includes a mandatory e-learning module that must be completed and passed prior to attending the course. Further instructions will be provided at a later date.
LEARNING OBJECTIVES

HSS continuing medical education activities are intended to improve the quality of patient care and safety.

Upon completion of this activity, participants will be able to:

- Recognize and utilize in practice the advanced Doppler kn搏ology of the ultrasound machine including color, pulse wave (PW), and continuous wave (CW) Doppler.
- Discern which knobs are necessary to assess for diastolic dysfunction, calculate pressure gradients across heart valves and to calculate the cardiac output. They will also manipulate the Doppler scale via baseline shift and apply low velocity reject in order to improve Doppler interpretation.
- Recite the steps to using color Doppler to view all cardiac valves, including the mitral valve (MV), tricuspid valve (TV), aortic valve (AV) and pulmonary valve (PV). They will also describe how to use color Doppler to assess valves for regurgitation jets, for example determining the severity and size of the jets. Participants will use color Doppler to assess the valves for regurgitation jets in practice.

- Recite the steps to assessing the aortic arch using color Doppler. They will also determine the presence of Doppler aliasing. They will assess the aortic arch and look for signs of Doppler aliasing in practice.
- Describe and utilize CW Doppler techniques across the cardiac valves (AV, TV, MV, PV) to estimate pressure and distinguish between a heart with normal pulmonary arterial and aortic valve pressures, and one with pulmonary hypertension and/or aortic stenosis.
- Describe and use PW Doppler methods to calculate cardiac output, which is influenced by heart rate and stroke volume, and distinguish between a heart with normal cardiac output and one with poor cardiac output.
- Describe and use PW Doppler methods, such as evaluating the mitral inflow velocity, to assess for diastolic dysfunction and distinguish between a heart with normal diastolic function and one with signs of diastolic dysfunction, such as increased diastolic pressure in the left ventricle.

Activity Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td>Registration and Breakfast*</td>
</tr>
<tr>
<td>8:30 am</td>
<td>Introduction</td>
</tr>
<tr>
<td>8:45 am</td>
<td>Session 1 Basic and Extended FATE Views</td>
</tr>
<tr>
<td>10:15 am</td>
<td>Session 2 Doppler Fundamentals</td>
</tr>
<tr>
<td>11:30 am</td>
<td>Lunch*</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Session 3 Applied Doppler Echocardiography (Pressure Estimation, Cardiac Output, Diastolic Function)</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>Break*</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>Session 4 Advanced Case Series Scenario Training Based on Real Cases; Certification and Evaluation</td>
</tr>
<tr>
<td>3:30 pm</td>
<td>Closing Remarks*</td>
</tr>
<tr>
<td>3:45 pm</td>
<td>Adjourn*</td>
</tr>
</tbody>
</table>

* Not designated for AMA PRA Category 1 Credits*

Program Faculty

ACTIVITY DIRECTOR
Stephen C. Haskins, MD
Assistant Attending Anesthesiologist
Hospital for Special Surgery
Clinical Assistant Professor of Anesthesiology
Weill Cornell Medicine
New York, NY, USA

CHIEF COURSE INSTRUCTOR
Erik Sloth, MD, PhD, DMSc
Professor of Point-Of-Care Ultrasound
Consultant Cardiothoracic Anaesthetist
Department of Anaesthesiology and Intensive Care Medicine
Aarhus University Hospital
Aarhus N, Denmark

GUEST FACULTY
Oliver Panzer, MD
Associate Professor of Anesthesiology
Director Perioperative Ultrasound
Division of Critical Care and Regional Anesthesia
Columbia University Medical Center
New York, NY

Christopher Y. Tanaka, MD
Assistant Professor
Department of Anesthesiology
Montefiore Medical Center

HSS FACULTY
Sean A. Garvin, MD
Assistant Attending Anesthesiologist
Clinical Assistant Professor of Anesthesiology
Weill Cornell Medicine

Jemiel A. Nejim, MD
Assistant Attending Anesthesiologist
Clinical Assistant Professor of Anesthesiology
Weill Cornell Medicine

Douglas S. Wetmore, MD
Assistant Attending Anesthesiologist

For More Information

Wanda Napolitano
Senior Events and Marketing Coordinator
Professional Education
Education & Academic Affairs
Hospital for Special Surgery
Tel: 212.606.1812
Email: napolitano@hss.edu

Register Early Space is Limited!

<table>
<thead>
<tr>
<th>Early Bird Rate</th>
<th>Regular Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>$900</td>
<td>$1,000</td>
</tr>
</tbody>
</table>

There will be no on-site registration, as all participants must access and complete an online e-learning module via USAbcd prior to the course.

Confirmation & Refund Policy

All registered participants will receive a confirmation, including instructions to complete the required e-learning module prior to the on-site course. A handling fee of $175 will be deducted for cancellations. Cancellation requests must be received by email two weeks prior to the course with an explanation. No refund will be made thereafter.

Parking, Transportation & Accommodations

For information on parking and accommodations, please go to hss.edu/visitor-information.asp and view our Neighborhood Directory. Local accommodations are limited and early reservations are recommended.

This program may be recorded, filmed or photographed. By attending this program, you give permission to Hospital for Special Surgery to use your voice and likeness for any purpose (promotional, educational or other), in any medium, and without remuneration of any kind to you.

Hospital for Special Surgery is an affiliate of Weill Cornell Medicine.

All rights reserved. © 2017 Hospital for Special Surgery.