



**PHILIPS**

Clinical services



# Making the most of **your investment**

## New York, NY Ultrasound Clinical Education Symposium

### Location and Date

Crowne Plaza Times Square  
1605 Broadway  
New York, NY 10019

December 14-20, 2019

### Registration

Register via phone at 1-800-522-7022 or  
online at  
[www.learningconnection.philips.com/en/  
ultrasound-clinical-education-symposiums](http://www.learningconnection.philips.com/en/ultrasound-clinical-education-symposiums)

- Select the symposium and your course(s)
- Complete the online registration form



- Denotes Remote Access Course also available
- Courses will begin at 8:00am EST

In today's competitive and dynamic healthcare climate, it is critical to use your medical imaging systems to their fullest potential. At Philips, we believe clinical education is key to getting the most out of your investment. It is vital that staff stay current on the latest clinical procedures and technologies. With that in mind, our comprehensive clinical education programs are designed to support clinical excellence, increase use of advanced system features, instill physician confidence in the quality of exams, enhance workflow and productivity, and foster professional growth and teamwork – ultimately, to deliver an outstanding patient experience.

# Clinical Education

Our team of highly skilled Clinical Education Specialists delivers and supports our courses in a unique learning environment of small class sizes, small student-to-instructor ratios and small student-to-system ratios. Our instructors train with luminaries in the field to understand how our technology is applied in daily patient care settings. The Philips team has educated more than 70,000 customers since 2008.

## Understanding Myocardial Mechanics 2 (CV351)

December 14, 2019

The one-day course begins with a review of the basic understanding and essential measurements required for the assessment of diastolic function. Technical aspects including how to obtain quality tracings and measurements will prepare the attendee for the live scanning sessions. In addition, the program will include cases demonstrating concordant and discordant information and how to troubleshoot diagnosis. Live scanning workshops will demonstrate what and where to measure for diastolic evaluations. **5 CEUs**

## Advanced Perioperative 3D TEE - Ao/Pul/Tri Valve (CV327)

December 14, 2019 

This course is designed to provide anesthesiologists, cardiologists, cardiac sonographers and cardiac surgeons with a comprehensive understanding of the role of 2D and 3D TEE in facilitating perioperative and procedural clinical decision-making. **9.25 CEUs (7.5 CEUs for Remote)**

## Fundamentals of Fetal Echocardiography (GI-WHC317)

December 14, 2019

The Fundamentals of Fetal Echocardiography is a one-day physician led course that will provide the basic fundamental information necessary to acquire knowledge and skill in performing Fetal Echocardiography Ultrasound exams. Lecture topics will include cardiac embryology, fetal circulation, cardiac anatomy and scanning protocol, color and spectral Doppler of the fetal heart and common fetal cardiac anomalies. **8 CEUs**

## Advanced Carotid Duplex Interpretation (VASC320)

December 14, 2019

During this physician-led, one-day course attendees will review interpretation basics and be presented with multiple case studies that demonstrate unusual pathologies to help develop confidence recognizing them. This class offers a unique opportunity to focus on carotid duplex interpretation in an in-depth way. Attendees will review complex cases including correlative invasive exams that sonographers in particular do not usually see. **8 CEUs**

## Pediatric Ultrasound University (GI309)

December 14, 2019

The one-day, physician-led course will provide the learner a comprehensive overview of the clinical applications, techniques and interpretation of a variety of Pediatric Ultrasound exams. Common pitfalls and imaging challenges will be explained to help reduce the likelihood of misinterpretation in order to increase diagnostic confidence. **7.75 CEUs**

## Advanced Customer Training General Imaging 2D & 3D EPIQ\* (GI213)

December 14-15 or December 19-20, 2019

This two day program provides a solid foundation in the principles and clinical application for general imaging, obstetrics and basic vascular exams on the EPIQ ultrasound machine.

*Day one* – Provides an introduction to image optimization and acquisition on the EPIQ ultrasound system. The course will also cover a variety of advanced features which improve diagnostic confidence and workflow. Educational material will be presented in the form of lectures as well as instructor led hands-on scanning sessions. **5 CEUs**

*Day two* – Provides an introduction to the Volume Imaging applications of the EPIQ ultrasound system. Participants will learn 3D image acquisition, optimization and manipulation on EPIQ through detailed lectures and instructor led hands-on scanning workshops. The course also provides an overview of xMATRIX technology and functionality including Panoramic Volume Imaging. **5.5 CEUs**

\* Customer can take one or both days

## Advanced Cardiac Sonographer Comprehensive Review Course (CV309)

December 14-15, 2019 

This two-day course is designed for experienced sonographers, anesthesiologists, and cardiologists who wish to receive a comprehensive review of advanced echocardiographic imaging methods and techniques which may prove useful in their study for an advanced practice national board examination. The course will be primarily didactic with a wealth of actual case studies as a base learning device from research, surgical, device implantation, resuscitation, myocardial mechanics with strain, and hemodynamic calculations. **15.75 CEUs**

## Thinking in 3D (CV302)

December 14-16, 2019

Real-time 3D echo is expanding the clinical utility of echocardiography by non-invasively bringing the live beating heart to places it has never been before—into the hands of physicians who are planning or performing surgical and interventional procedures, into the EP lab and beyond. This is a unique and up-close way to learn in an intensive, informal and intimate setting. Students have the opportunity to participate in a lively and interactive question-and-answer session. **17 CEUs**

## Abdominal Doppler Assessment (VASC310)

December 15, 2019

This comprehensive, one-day course focuses on Doppler interrogation of the abdominal vasculature. Beginning with the abdominal aortic outflow, we will discuss flow profiles of the major abdominal branches, detail the hepato-portal Doppler assessment, and conclude with inflow and venous return flow profiling. Attendees will have hands-on scanning sessions with the support of the physician speaker and Philips Clinical Education Specialists. **7 CEUs**

## Advanced Fetal Echocardiography University (GI-WHC308)

December 15, 2019

The Advanced Fetal Echocardiography University is a one day, physician-led course that will provide the learner a comprehensive overview of the clinical applications, techniques and interpretation of Fetal Echo imaging to aid in the diagnosis of structural malformations of the heart. **7.75 CEUs**

### **Understanding Myocardial Mechanics (CV350)**

December 15, 2019 or December 16, 2019

The one-day course is designed to provide cardiologists and sonographers with the fundamental skills required to analyze high-quality 2D images for myocardial performance. This is the first Philips course solely dedicated to the assessment of myocardial mechanics and strain imaging by speckle tracking echocardiography (STE). The course includes both basic and advanced teaching of myocardial function and is designed for physicians and sonographers that are interested in improving their skills in the interpretation of strain imaging. **5 CEUs**

### **Perioperative 3D TEE (CV325)**

December 15-16 2019

The two-day course is designed to provide anesthesiologists, cardiologists, and cardiac sonographers with the fundamental skills required to obtain high-quality, Live 3D TEE images and the confidence to immediately incorporate Live 3D TEE into their practice. **17 CEUs (9 CEUs for Remote)**

### **Introduction to Musculoskeletal Imaging (GI-MSK206)**

December 15-16, 2019

This two-day program provides the basic fundamental information necessary to acquire knowledge and skill in performing musculoskeletal ultrasound exams. Educational material will be presented in the form of detailed lectures as well as supervised hands on scanning sessions. **11.5 CEUs**

### **Breast Ultrasound Advanced Customer Training (GI-WHC204)**

December 16, 2019

The one-day course consists of advanced and intensive training to provide information necessary to acquire knowledge as it applies to the application of breast ultrasound. Educational material will be presented in the form of lectures as well as instructor led hands-on scanning sessions. **6 CEUs**

### **Liver Elastography University (GI310)**

December 16 or December 18, 2019

The Liver Elastography University is a one-day course that will be co-delivered by a physician and the Ultrasound Clinical Education Specialists. The course will provide an overview of image optimization and a review of general liver ultrasound including color and pulsed Doppler. Additionally, the physician-led portion will provide a comprehensive overview of the practical applications, techniques and interpretation of Liver Elastography. **8.5 CEUs (5.25 CEUs for Remote)**

### **Ultrasound of Advanced Renovascular Disease (VASC380)**

December 16, 2019

This Philips Clinical Education full-day course for noninvasive vascular ultrasound technologists is developed to meet the climbing need to standardize performance protocols and diagnostic criteria for noninvasive evaluation of complex renal pathologies. Program topics include a brief review of renal anatomy and physiology, pathophysiology of and sonographic evaluation of renal artery stenosis, chronic and end-stage renal disease, dialysis access arterio-venous fistula evaluation and renal transplantation. **7.75 CEUs**

### **Master Course in Anatomical 3D TEE for Surgical and Transcatheter Procedures (CV330)**

December 16-17, 2019

This two-day course is guided by a leading cardiothoracic surgeon, Evelio Rodriguez MD, and is designed specifically for cardiac sonographers, anesthesiologists and physician CV imaging specialists to improve their knowledge base and learn expert 3D TEE imaging techniques in pre-evaluation and procedural imaging during surgical and transcatheter interventions. **16 CEUs**

### **Venous Thrombosis and Thromboembolism (VASC333)**

December 17, 2019

The one-day, physician-led course will be delivered through lectures, case studies and interactive hands-on sessions. Peripheral Venous Duplex sonography is a non-invasive method used to evaluate the venous anatomy of the limbs, the central veins of the head and neck, the pelvic veins and the inferior vena cava. This method of evaluation is a very useful tool for the identification of superficial and deep venous thrombosis, venous insufficiency assessment, and vein mapping for venous grafting. **7 CEUs**

### **Breast Ultrasound University (GI-WHC307)**

December 17, 2019

The Breast Ultrasound University is a one-day, physician-led course that will provide a comprehensive overview of the practical applications, techniques and interpretation of breast ultrasound, including breast elastography. **7.75 CEUs**

### **Basic Fetal Echocardiography (GI-WHC208)**

December 17, 2019

This one-day program provides the information necessary to acquire knowledge and skill in the sonographic assessment of the fetal heart as part of the second trimester OB ultrasound exam. This course will extensively cover the four-chamber heart and all of its intricacies. Imaging of the outflow tract views, including the 3-vessel view and the 3-vessel trachea view, will be covered in detail. **8.5 CEUs**

### **Live 3D TEE for TAVR 2 day program (CV311)**

December 17-18, 2019

The two-day course is designed to provide interventional cardiologists, non-interventional cardiologists, cardiac anesthesiologists and cardiac sonographers on TAVR teams with the fundamental skills required to obtain and analyze high-quality Live 3D TEE images. The course focuses on the images and analysis needed for TAVR procedures. **15 CEUs (7 CEUs for Remote)**

### **Musculoskeletal Ultrasound University (GI-MSK306)**

December 17-18, 2019

The Musculoskeletal Ultrasound University is a two-day, physician-led course that will provide a comprehensive overview of the practical applications, techniques, and interpretation of MSK imaging. **11.5 CEUs**

### **Advanced Customer Training Cardiovascular 2D & 3D Live EPIQ\* (CV213)**

December 17-18, 2019 or December 19-20, 2019

The two day program provides a solid foundation in the principles and clinical application for cardiac analysis on the EPIQ ultrasound machine.

*Day one* – This class is an introduction to image optimization and acquisition on the EPIQ ultrasound system as well as QLAB 2D quantification. **5.5 CEUs**

*Day two* – This class is an introduction to xMATRIX technology and functionality on the EPIQ system. Participants will learn 3D image acquisition and optimization on EPIQ during live scanning workshops. **6.0 CEUs**

*\* Customer can take one or both days*

### EPIQ 3D University Essentials (CV303)

December 17-19, 2019

The three-day course is designed to provide a solid foundation in Live 3D echocardiography for physicians and cardiac sonographers who are new 3D users. The course provides a spectrum of situations both physicians and sonographers can use and reference. By increasing familiarity with clinical applications of Live 3D echocardiography, students develop a comfort level to make 3D part of their scanning protocols. **14 CEUs**

### Advanced Transcranial Doppler Imaging (VASC370)

December 18, 2019

Transcranial Doppler Imaging (TCDI) is a non-invasive vascular duplex test used to evaluate the circle of Willis and the vertebrobasilar arteries using various acoustic windows. The one-day course provides the basic knowledge needed to begin scanning the intracerebral arteries. Interesting case studies and supervised hands-on sessions are also included. **5 CEUs**

### Mitral Valve Imaging (CV361)

December 18, 2019

The one-day course is designed to provide heart surgeons, interventional cardiologists, non-interventional cardiologists, cardiac anesthesiologists and cardiac sonographers with the fundamental skills required to obtain and analyze high-quality Live 3D TEE images. The course focuses on image acquisition and analysis needed for interventional Mitral Valve procedures. **8 CEUs**

### Women's Healthcare Volume Imaging University (GI-WHC301)

December 18-20, 2019

The Women's Healthcare Volume Imaging University is a three-day program that provides a solid foundation in the principles and clinical application of volumetric imaging as it applies specifically to women's healthcare. Day one focuses on the basics of image acquisition and volume data set manipulation. Days two and three are physician-led lectures and hands-on sessions that cover the acquisition and manipulation of fetal heart volumes using spatial temporal image correlation (STIC) and QLAB, and the acquisition and manipulation of GYN, first trimester, fetal spine and fetal head volume datasets. **15 CEUs**

### Advanced Customer Training Vascular EPIQ (VASC222)

December 19, 2019

The one-day course provides an introduction to vascular image optimization and acquisition on the EPIQ ultrasound system. The course will also cover a variety of advanced features which improve diagnostic confidence and workflow. Educational material will be presented in the form of lectures as well as instructor led hands-on scanning sessions. **6.5 CEUs**

### Genitourinary Ultrasound (GI316)

December 19, 2019

This one-day, sonographer led course that will provide the learner a comprehensive overview of the up-to-date sonographic imaging techniques used to evaluate the kidneys, scrotum and prostate gland. The course will cover a review of anatomy and physiology, common pathology and lab values. **8.5 CEUs**

### Comprehensive Live 3D TEE (CV322)

December 19-20, 2019

The two-day course is designed to provide healthcare providers with a comprehensive view of the use of Live 3D TEE. Three dimensional TEE will be discussed for all cardiology uses. Emphasis will be placed on mitral and aortic valvular disease, although all four valves will be thoroughly discussed. The use of 3D TEE for planning TAVR as well as during the implantation of TAVR will be highlighted. Quantification of vascular disease, particularly mitral, will be discussed including QLAB use. **14.5 CEUs (9.5 CEUs for Remote)**

### Live 3D TEE in Structural Heart Disease (CV323)

December 19-20, 2019

During this two-day course, participants will be introduced to 3D image acquisition in structural heart disease. Non-invasive and invasive cardiologists, cardiac anesthesiologists and sonographers will gain insight into clinical applications of this technique and a process to incorporate this technology into daily clinical practice. **14.5 CEUs (8.25 CEUs for Remote)**

### Comprehensive 3D Imaging and Interventions of the Mitral Valve (CV324)

December 19-20, 2019

During this two-day course, participants will be introduced to 3D image acquisition for mitral valve disease. Non-invasive and invasive cardiologists, sonographers, cardiac anesthesiologists and cardiac surgeons will gain insight into clinical applications of this technique and a process to incorporate this technology into daily clinical practice. A broad spectrum of clinical applications of 3D TEE will be covered, including 3D assessment of the normal and abnormal mitral valve. **14 CEUs (8.25 CEUs for Remote)**

### The Sonographer's Systematical Approach to the Comprehensive Echo Exam (CV308)

December 20, 2019

The field of echocardiography is a rapidly changing one. Sonographers must keep up with the changes and technological advancements. Existing guidelines outline the steps that are needed to be taken in a modern complete echo. This course will review those steps and expand the sonographer's knowledge, giving them an understanding of the clinical impact of the echocardiographic measurements on a patient's care. This course will be focused on the attendee, with an interactive atmosphere that challenges the participant's level of knowledge. Educational material will be presented in the form of lectures and case presentations. **9 CEUs**

### Practical Strain for the Echo Lab (CV250)

December 20, 2019

Global Longitudinal Strain (GLS) has been shown to be a reliable and reproducible measurement of left ventricular function. Studies have indicated GLS is useful in detecting subtle changes in function. This course will review the utility of GLS in daily echocardiography and provide attendees instruction on the tools and imaging techniques available on their Philips products. **7.5 CEUs**



#### For more information

Contact a Philips ultrasound clinical services coordinator at 800-522-7022 and visit our education catalog at

[www.learningconnection.philips.com/ultrasound](http://www.learningconnection.philips.com/ultrasound)

