



Introduction to Live 3D imaging and 3D Quantification in Congenital Heart Disease

Bridging the gap between 2D and 3D for CHD

This two-day course is designed to provide cardiologists and cardiac sonographers with the fundamental skills required to obtain and analyze high quality Live 3D images.

Philips Ultrasound
University
Cardiology 305

Lori Szumny BS, RDCS is a Clinical Education Specialist at Philips Healthcare with a concentration in Pediatric Echo. Lori has been registered in Pediatric Echo since 1994 and before coming to Philips was Pediatric Echo Lab Coordinator and Technical Director at Hope Children's Hospital in Oak Lawn IL. Since being at Philips she has been focused on Live 3D in CHD and course development.

Course description

Educational material will be presented in the form of lectures, case presentations, informal discussions, and hands-on image manipulation that together will provide a thorough introduction into the fundamentals of Live 3D and its practical clinical application.

Throughout the course, the Philips ultrasound clinical education team will assist in instructing participants on optimizing acquisition, manipulation, cropping, and quantification of Live 3D datasets using QLAB software. Students will have ample opportunity to develop hands-on experience.

The first day will be an overview on congenital heart scanning with models for image acquisition and optimization on the ultrasound system. On the second day, there will be a review of basic Congenital Heart Disease followed by 3D image manipulation, cropping, display, and quantification of 3D datasets of congenital cardiac defects using QLAB software. Students will have ample opportunity to develop hands-on experience.

PHILIPS

Introduction to 3D imaging and 3D quantification in Congenital Heart Disease (CV305)



Lori Szumny
BS, RDCS

“Using 3D we are no longer limited to a window or certain cut planes. We can now view the anatomy any way needed to see the pathology.”

Lori Szumny

Course objectives

At the end of this course the attendee should be able to:

- Demonstrate how to optimize Live 3D displays
- Acquire optimal 3D datasets in xPlane, Live 3D, Zoom Acquisition, and Full volume in patients with CHD
- Quantify 3D datasets using 3DQ and 3DQA in CHD
- Describe the benefits and limitations of Live 3D quantification in CHD
- Discuss common congenital heart abnormalities

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Pre-requisite knowledge

A thorough knowledge and understanding of 2D echocardiography and system instrumentation is required for this program.

This course is for physicians and sonographers interested in using Live 3D in clinical practice and expanding their knowledge of congenital heart disease.



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