



PHILIPS

Clinical Education

Ultrasound of Advanced Renovascular Disease

Stenosis, end stage renal disease, dialysis access and renal transplant

In today's competitive and dynamic healthcare climate, it is critical to use your medical imaging systems to their fullest potential. Our goal at Philips Healthcare is to provide the clinical education you need to make the most of your equipment investment.

Philips Ultrasound University Vascular 380

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 renal pathologies. The course includes lectures, interactive case study presentations and a hands-

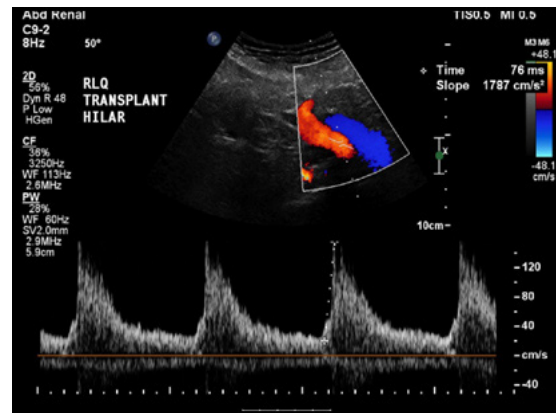
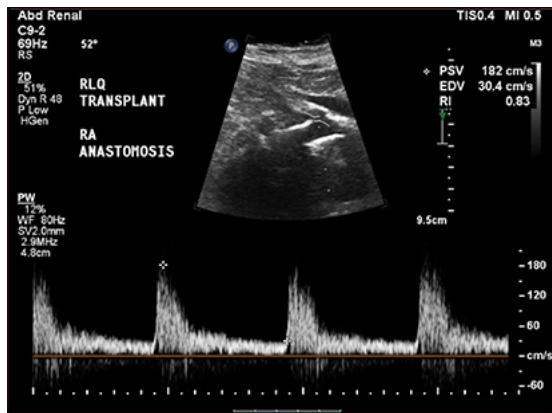
on scanning session. Program topics include a brief review of renal anatomy and physiology, pathophysiology of and sonographic evaluation of renal artery stenosis, chronic and end-stage renal disease, dialysis access arterio-venous fistula evaluation and renal transplantation. Preoperative and postoperative noninvasive vascular testing

protocols and diagnostic criteria with case study correlations including DSA angiography, CTA and MRA will also be presented.

Prerequisite

This course is intended for either practicing sonographers or physicians with prior scanning experience who want to learn advanced imaging of renal artery stenosis, dialysis access, and renal transplant. The attendee must be a practicing sonographer or physician with prior duplex imaging experience and a firm understanding of abdominal and peripheral vascular anatomy.

Ultrasound of Advanced Renovascular Disease (VASC380)



Course Objectives

Upon completion of this course, the learner should be able to:

- Demonstrate the appropriate knowledge of anatomy, physiology, pathophysiology and general approach for disease management
- Demonstrate different imaging protocols and diagnostic criteria used for duplex sonography renal artery and renal artery stenosis, hemodialysis access AVF, renal transplants and its complications.
- Describe the appropriate algorithm for the preoperative workup.
- Understand important observations recorded while performing postoperative ultrasonography examination.
- Understand the most common causes of renal transplant failure including acute tubular necrosis (ATN), rejection (hyperacute, acute, and chronic), and drug toxicity and its clinical presentation as well as ultrasound finding associated such complications.

Faculty

- Muhammad Hasan, MBBCh, RVPI, RVT
- Philips Ultrasound Clinical Education



Muhammad Hasan, MBBCh, RVPI, RVT

Technical Director of the Peripheral Vascular Laboratory at Baptist Cardiac and Vascular Institute in Miami, Florida.

Locations

Course may be held in Philips central locations in Alpharetta, Georgia; Bothell, Washington; and Cleveland, Ohio. Other locations may be offered

For more information

Contact Philips Ultrasound Clinical Education at **800.522.7022** and visit our education catalog at

www.learningconnection.philips.com/ultrasound

© 2015 Koninklijke Philips N.V. All rights are reserved.

Philips Healthcare reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.



Please visit www.usa.philips.com/healthcare-medical-education

Printed in The United States.
Jan 2015