AIHE
Australian Institute of Healthcare Education
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Ultrasound Short Course:

Physics, Ultrasound Terminology & Image Optimisation

Where: Sydney
AIHE
Level 3, 33 Chandos St
St Leonards NSW 2065

When in 2015
PHYS1
Saturday 28th March
PHYS2
Saturday 5th September

Time:
08:30 registration
09:00 – 15:30 Saturday

Cost:
1 day: $350
(Registration fee includes a light lunch and morning tea.)

CPD:
RANZCR: CPDs to be advised
RANZCOG: 6 CPD points
ASAR: 6 CPD points

Enrolment form:
For an enrolment form please download from our website www.aihe.edu.au and email it to us at info@aihe.edu.au

Please make payment by EFT to:
AIHE
BSB: 062 438
Account number: 1023 1114
Course Code: PHYS1 or PHYS2

AIHE Pty Ltd
Level 3, 33 Chandos St
St Leonards NSW 2065
Phone: 1300 656 036
Email: info@aihe.edu.au
Web: www.aihe.edu.au

Who should attend?

This one day course is intended for:

- Radiology fellows & registrars preparing for Parts I & II exams.
- Obstetrics & gynaecology fellows & registrars.
- Specialist medical practitioners who will be using targeted ultrasound examinations in their field of expertise.
- Sonographers (both students and accredited) who wish to refresh their knowledge of ultrasound physics and image optimisation.
- Ultrasound engineers/ applications/sales wanting to refresh their understanding of physics & image optimisation.

Course Objectives

This course will cover the physical principles that underpin diagnostic ultrasound and detail the technical principles of imaging and Doppler equipment. It will also discuss the user controls and important image and Doppler artifacts.

Two interactive sessions will introduce the main image controls used during a typical ultrasound examination and the appropriate use of the machine's controls to optimise the quality of the diagnostic information obtained. B-mode, pulsed Doppler and colour Doppler modes will be covered.

Program for PHYS1 or PHYS2

08:30	Registration
09:00	Ultrasound imaging. This session will cover ultrasound and its interaction with tissues; ultrasound imaging principles & technology; imaging controls; image artifacts.
11:30	Image optimisation & the main B-mode machine controls.
12:30	Lunch
13:00	Doppler principles to include colour & pulsed Doppler ultrasound instrumentation. Doppler controls & Doppler ultrasound artifacts are also covered in this session.
14:45	Doppler optimisation & the main Doppler controls.
15:30	Close

Faculty

Dr Rob Gill, PhD

Dr Gill trained as a physicist & engineer. For over 30 years he carried out research on diagnostic ultrasound equipment as a member of the Ultrasonics Institute in Sydney. His main area of interest was Doppler ultrasound, and he is regarded as one of the pioneers of fetal Doppler.

He has a strong interest in promoting the ultrasound profession and is a Past President of the Australasian Society for Ultrasound in Medicine. He has also served on a number of educational boards and committees.

Rob is a passionate educator. His textbook is widely used in university and other courses and he is now developing a series of online courses. He is a Conjoint Associate Professor at the University of NSW.

Ms Fiona Sarode

Fiona is an Accredited Medical Sonographer and has been performing ultrasound since 1991. Fiona completed her Graduate Diploma of Applied Science (Medical Ultrasound) at Queensland University of Technology and subsequently a Master of Applied Science (Medical Ultrasound). She has also completed a Graduate Certificate of Online Education and most recently a Certificate IV in Training & Assessment.

Fiona has worked as a general sonographer and specialist vascular sonographer throughout her career in Australia, United Kingdom, Singapore and Hong Kong. She has also worked as a clinical applications specialist in Asia Pacific/Middle East where she continued to develop her passion for ultrasound education.