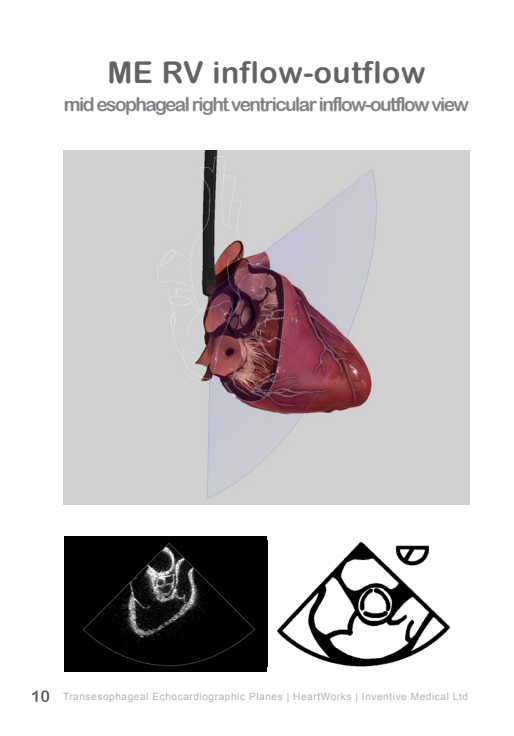
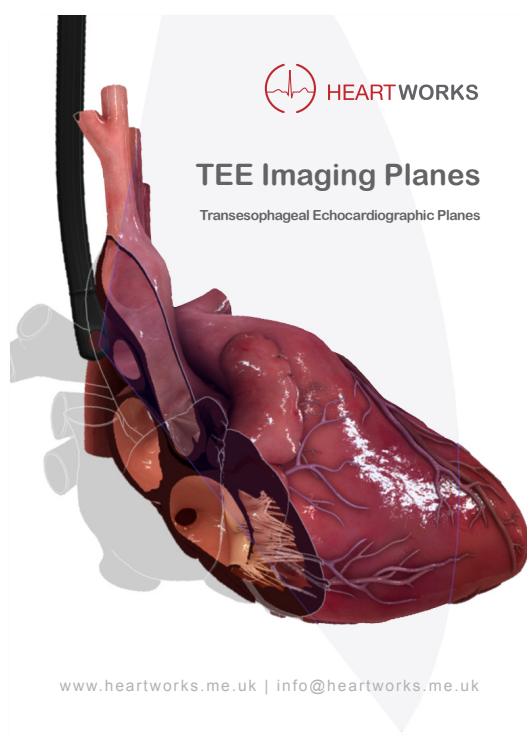


Additional HeartWorks Products *cont...*

HeartWorks 'TEE Imaging Planes' Booklet

Twenty TEE imaging planes, along with corresponding ultrasound images and line drawings, are also presented in an A6 (105mm X 148mm) booklet, providing students with a handy pocket size reference tool



HeartWorks Laptop Computer

Existing owners of HeartWorks desktop systems can complement their HeartWorks facilities with a laptop version of the HeartWorks software. With the ability to display the HeartWorks image output via the laptop monitor or via an external screen projector, this addition greatly enhances the system's potential to support educational activities and lecture presentations at distant locations.

HeartWorks Travel Cases

Customised travel cases are available for the manikin, computer and screen. The cases have a lightweight and durable outer lining with fitted sponge inner lining. All cases have integrated wheels for easy transportation.



HEARTWORKS
www.heartworks.me.uk

- Echocardiography Training Tool
- Developed by practising doctors
- Anatomically accurate 3D heart
- Real-time ultrasound simulation

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Detailed specifications

Anatomy Package

Hardware:

- High specification desktop computer with Intel based processor
- High-end graphics card
- Keyboard and mouse
- DVD+/-RW Drive
- High resolution (1920 x 1200) 24" Widescreen monitor

Software:

- HeartWorks freely manipulable virtual heart model with labels
- Anatomy textbook
- User manual

Transesophageal Echocardiography Package

Hardware:

- Includes Anatomy package hardware, plus:
- Fibreglass and soft rubber, latex free, torso manikin - 80cm x 48cm x 28cm
- Removable simulation TEE probe

Software:

- HeartWorks freely manipulable virtual heart model with labels
- Anatomy textbook
- User manual, plus:
- Ultrasound simulation package with both manikin, keyboard and mouse controlled TEE functions.

Transthoracic Echocardiography Package

Hardware:

- Includes Anatomy package hardware, plus:
- Fibreglass and soft rubber, latex free, torso manikin - 80cm x 48cm x 28cm
- Removable soft skin area and left lateral tilt mechanism
- Simulation TTE probe

Software:

- HeartWorks freely manipulable virtual heart model with labels
- Anatomy textbook
- User manual, plus:
- Ultrasound simulation package with manikin control of TTE functions

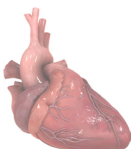
Transesophageal and Transthoracic Echocardiography combined Dual Manikin Package

Hardware:

- Includes Anatomy package hardware, plus:
- Fibreglass and soft rubber, latex free, torso manikin - 80cm x 48cm x 28cm
- Removable soft skin area and left lateral tilt mechanism
- Removable simulation TEE probe
- Simulation TTE probe

Software:

- HeartWorks freely manipulable virtual heart model with labels
- Anatomy textbook
- User manual, plus:
- Ultrasound simulation programme supporting both TEE and TTE functions.



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Benefits of Purchasing and Using HeartWorks®

This document outlines some of the benefits that have been realised by customers from implementing the HeartWorks system.

Financial

- More efficient use of training resources
- Reduced training time
- Time-effective use of training facilities
- Ability to teach larger groups
- Ability to generate income from teaching/training using HeartWorks based training programs

Educational

- Improved learning and understanding of:
 - Echocardiography
 - Relationship between anatomy & echocardiography¹
- Improved practical skills acquisition¹
- Accelerated learning:
 - Reduced time to achieving competence¹
 - Reduced time demand on tutors
 - Improved ability to offer self-directed learning
- No dependence on operating schedule & clinical material availability:
 - Improved efficiency of training time usage
 - Improved ability to schedule training time
- Ability to create bespoke slideshows and teaching modules
 - Applicable to students at any level of training
 - Applicable to a broad spectrum of disciplines (medical, nursing, paramedical, technical, schoolchildren...)

Clinical

- Better informed clinical practice
 - Improved diagnostic ability of clinicians
 - Improved quality of patient care
- Ability to schedule training away from clinical area
- More clinical time spent 'patient' focussed rather than 'training' focussed

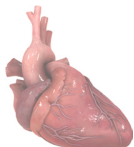
Risk

- Reduced risk of trauma to patient by unskilled practitioner
- Reduced patient complaint
- Reduced risk of distraction in clinical area (during teaching)
- Reduced infection risk (fewer personnel in clinical environment)

Additional

- Prestige with using innovative teaching methods & materials
- Enhancement of existing simulation facilities
- Enhanced institutional profile
- Increased attraction to potential student and tutor applicants
- Ability to access continued developments and upgrades in HeartWorks software & hardware

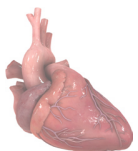
¹ Smith LA, Bhan A, Paul M, Monaghan MJ. Expert evaluation of a novel transoesophageal echocardiography simulator. Eur J Echocardiogr 2010, 11 (Suppl 2): P898



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