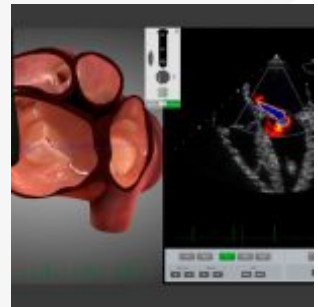
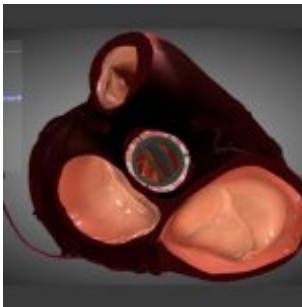


HEARTWORKS DUAL - TTE AND TEE ULTRASOUND

PRODUCT NUMBER: 1503



DESCRIPTION:

The complete simulation solution for **Transesophageal (TEE)** and **Transthoracic Echocardiography (TTE)** in one single dual purpose manikin.

A 'plug and play' solution, tutors can easily switch between TEE and TTE in their training schedules. Retaining all the features of the acclaimed **HeartWorks imaging software**, educational programs can be both cost and time efficient without compromising on quality.

SKILLS:

- Learn cardiac anatomy
- Practise TEE & TTE probe manipulation skills
- Acquire quality diagnostic images
- Relate ultrasound images to anatomy concurrent with probe manipulation

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- Recognise pathology
- 2D, Doppler & M-mode imaging

CASES AND PATHOLOGIES:

MODULE 1:

- Global left ventricular dysfunction, Left ventricular anterior wall motion abnormality and Hypovolemia

MODULE 2:

- Aortic stenosis, Mitral stenosis and Mitral regurgitation

MODULE 3:

- Aortic dissection, Atrial septal defect and Mitral regurgitation doppler

MODULE 4:

- Mechanical aortic valve, Right ventricular dysfunction with tricuspid regurgitation and Aortic stenosis and mitral stenosis Doppler

MODULE 5:

- Unilobed left arial appendage, Multilobed left arial appendage and Hooked left arial appendage

MODULE 6:

- Normal lung, Pleural effusion and Cardiac tamponade

MODULE 7:

- Aortic regurgitation, Pneumothorax and Hypovolemia with doppler

MODULE 8:

- Pukmonary embolus, Left atrial appendage occlusion devices and Lateral flexion

MODULE 9:

- Interactive learning of cardiac anatomy, Intuitive management of imaging modes when making measurements and Realistic virtual ultrasound console

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MODULE 10:

- Measurements, calculations and reports

MODULE 11:

- Hypertrophic cardiomyopathy, Right coronary artery regional wall motion abnormality and Mitral and tricuspid regurgitation

MODULE 12:

- Biplane imaging

CHARACTERISTICS:

TWO SIMULATORS IN ONE:

- **TEE SIMULATOR:** A comprehensive education in transesophageal echocardiography.
- **TTE SIMULATOR:** A comprehensive education in transthoracic echocardiography.

FEATURES:

UNDERSTAND CARDIAC ANATOMY:

- Slicing and removing sections of the beating, interactive 3D heart model reveals underlying structures that have been annotated, labelled and described.
- An integrated text book facilitates a comprehensive understanding of cardiac anatomy.

REALISTIC PROBE POSITIONING:

- Authentic controls on the TEE probe in a life-size torso manikin and palpable, anatomical landmarks on the chest for TTE probe manipulation enable accurate, real-time views of both the 3D anatomical heart and related ultrasound planes.

RELATE IMAGES TO ANATOMY:

- Offering all the features of the HeartWorks imaging software, when practising and developing probe handling skills, students will see 3D heart images and corresponding real-time ultrasound views, so that image relationships can be visualised and interpreted.
- The integrated anatomical cardiac text book provides an additional valuable resource in echocardiography education.

DOPPLER AND M-MODE FUNCTIONS:

- Colour and spectral Doppler modalities are available along with the tools with which to make accurate quantitative assessment of cardiac

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function.

- Pulsed and continuous wave Doppler information can be obtained from any intra-cardiac region.

INCLUDE:

- 1 Highly realistic feminine torso
- 1 Transabdominal probe
- 1 Transthoracic probe
- 1 PC or Laptop
- 2 Screens
- 1 Set of 13 modules (software)
- 1 Probe tray
- 2 Carrying cases
- 1 User guide

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