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Introduction to TTE



The introduction to Transthoracic Echocardiography (TTE) eLearn course spans core topics of TTE from the basic physics of ultrasound and probe manipulation, to recommended echo views and reference values for disease grading. The course has been developed for all healthcare professionals starting their journey in clinical transthoracic echocardiography and comprises 11 modules, each containing multiple lessons and richly illustrated with videos and still images. At the end of each module there is a summary and short test.

COURSE MODULES

- How TTE images are created: the basic physics of ultrasound
- TTE probe manipulation and imaging planes
- Measurements, calculations and reference values
- Mitral valve
- Aortic valve
- Left ventricle
- Right ventricle
- Aorta
- Tricuspid valve
- Pulmonic valve
- Other structures



COURSE AUTHORS

Dr. Sue Wright, MBBS, FRCA, FFICM, was born and educated in Zimbabwe. She graduated in medicine from the University of London in 1984 and subsequently gained fellowship of the Royal College of Anaesthetists in 1991. From 1996 to 2015 she practised as a Consultant Anaesthetist at University College and the Heart Hospital, London, where she was the clinical lead for the peri-operative echocardiography service and established the UCLH course in peri-operative TOE in 1997. Dr. Wright currently practices at St. George's University Hospital, London, UK.



Dr Bruce Martin, MBBS, FRCA, FFICM, qualified in medicine from the Royal Free Hospital (University of London) in 1984. After working in South Africa, Australia and New Zealand he gained the fellowship of the Royal College of Anaesthetists in 1996. He was appointed Consultant in Anaesthesia & Intensive Care at the Heart Hospital (University College London Hospitals) in 2002, having previously spent two years as a Visiting Instructor (Consultant) at the University of Michigan, USA. He has wide experience in cardiothoracic anaesthesia and intensive care, and has a particular interest in the teaching of peri-operative transoesophageal echocardiography. Dr. Martin currently practises at the Barts Heart Centre, St. Bartholomew's Hospital, London, UK.



Dr Andrew Smith, MBBS, FRCA, FFICM, qualified in medicine from the Royal Free Hospital (University of London) in 1993. He gained fellowship of the Royal College of Anaesthetists in 1998 and was appointed as Consultant in Anaesthesia & Intensive Care at the Heart Hospital (University College London Hospitals) in 2001. He has wide experience in anaesthesia for cardiac and thoracic surgical procedures and has a particular interest in teaching and training skills in peri-operative transoesophageal echocardiography. Dr. Smith currently practises at the Barts Heart Centre, St. Bartholomew's Hospital, London, UK.



Introduction to TEE



The introduction to Transesophageal Echocardiography (TEE) eLearn course spans core topics of TEE from the basic physics of ultrasound and probe manipulation, to recommended echo views and reference values for disease grading. The course has been developed for all healthcare professionals starting their journey in clinical transesophageal echocardiography and comprises 11 modules, each containing multiple lessons and richly illustrated with videos and still images. At the end of each module there is a summary and short test.

COURSE MODULES

- How TEE images are created: the basic physics of ultrasound
- TEE probe manipulation and imaging planes
- Measurements, calculations and reference values
- Mitral valve
- Aortic valve
- Left ventricle
- Right ventricle
- Aorta
- Tricuspid valve
- Pulmonic valve
- Other structures of interest



COURSE AUTHORS

Dr. Sue Wright, MBBS, FRCA, FFICM, was born and educated in Zimbabwe. She graduated in medicine from the University of London in 1984 and subsequently gained fellowship of the Royal College of Anaesthetists in 1991. From 1996 to 2015 she practised as a Consultant Anaesthetist at University College and the Heart Hospital, London, where she was the clinical lead for the peri-operative echocardiography service and established the UCLH course in peri-operative TOE in 1997. Dr. Wright currently practises at St. George's University Hospital, London, UK.



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PoCUS for the Healthcare Professional



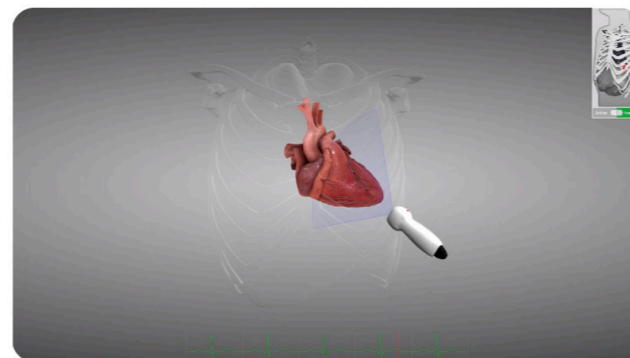
The Point-of-Care Ultrasound (PoCUS) for the Healthcare Professional e-learn course was developed to meet the educational needs of clinicians using PoCUS in a variety of settings including the operating room, emergency room and intensive care unit. These eight modules cover a variety of ultrasound applications including airway, gastric, pulmonary and transthoracic/transesophageal echocardiography including the FAST and FATE protocols.

COURSE MODULES

- Basics of Ultrasound and Imaging
- The Focused Assessed Transthoracic Echo (FATE) Exam
- Clinical Utility of Transthoracic Echocardiography (TTE)
- Basic Transesophageal Echocardiography (TEE)
- Clinical Utility of Basic TEE
- The Focused Assessment Using Sonography for Trauma
- Utility of the FAST Exam
- Airway, Gastric and Pulmonary Ultrasound



Slide the transducer: the probe is moved across the patient's skin to a new imaging window.



Sliding the Transducer



COURSE AUTHOR

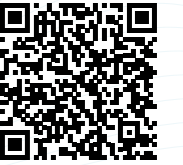
John Shields DNP, CRNA, is a cardiovascular anesthetist practicing at Vanderbilt Heart and Vascular Institute in Nashville Tennessee, with over 30 years of clinical and leadership experience.

He is also faculty at Middle Tennessee School of Anesthesia with the Acute Surgical Pain Management Fellowship (ASPMF). His clinical practice involves transthoracic and transesophageal echocardiography along with Point-of-Care Ultrasound (PoCUS).





TTE for the Sonographer



The Transthoracic Echocardiography (TTE) for the Sonographer eLearn course ideal for sonographers who are learning echocardiography for the first time or those who want to refresh their echo skills and knowledge of cardiac pathology. Created with the sonographer in mind, this e-learn course has 14 modules that take the student through critical subject areas every cardiac sonographer should know.

COURSE MODULES

- Ultrasound Physics
- Cardiovascular Anatomy and Physiology
- Introduction to Transthoracic Echocardiography
- Valve Disease
- Ischemic Heart Disease
- Cardiomyopathies
- Pericardial Disease
- Systemic and Pulmonary Hypertension
- Diseases of the Aorta
- Cardiac Masses
- Congenital Heart Defects
- Miscellaneous Diseases
- Interventional Echocardiography
- Echocardiographic Equations

COURSE AUTHOR

Christie Jordan has worked in the ultrasound profession for over 30 years as a cardiac sonographer, and for over 18 years as a cardiac invasive specialist and cardiac ultrasound professor.

Currently Ms. Jordan is the Program Director for the Cardiovascular Technology Program at Florida State College in Jacksonville, Florida.





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