

Ultrasound physics

	ST 4-6	Assessment methods	GMP Domains
Knowledge	<p>The basic components of an ultrasound system</p> <p>Types of transducers and the production of ultrasound, with an emphasis on operator-controlled variables</p> <p>Use of ultrasound controls</p> <p>Know the frequencies used in medical ultrasound and the effect on image quality and penetration</p> <p>The interaction of ultrasound with tissue including biological effects</p> <p>Safety issues in ultrasound</p> <p>The basic principles of real time and Doppler ultrasound including colour flow and power Doppler</p> <p>The recognition and explanation of common artefacts in image recording systems</p>	C, AA, W	1
Skills	<p>Can operate the key machine controls</p> <p>Transducer changing</p> <p>Image manipulation and storage</p>	D	1
Behaviour	<p>Safe practice</p> <p>Recognises limitations of own skills</p>	E, C	2, 3