



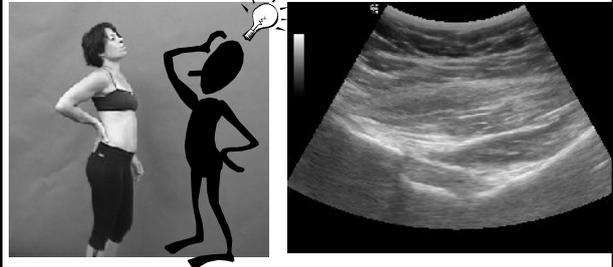
The Why, What & How of MSK Ultrasound

Lesson 1 Introduction

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Why?

Diagnosis Treatment Direction Rehabilitation



Ultrasound

is an

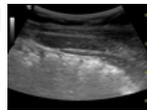
invaluable tool



Ax



Rx
Direction



Rx



Has your US machine become a towel rack??



Why will RTUS be useful in my clinic?

What are the principles behind it?

How can I improve my skills?

Course Goal Statement

To provide answers for the following questions:



Overall Aims

This course aims to:

1. Enhance awareness of the applications of musculoskeletal ultrasound in diagnosis and rehabilitation
2. Provide a basic understanding of the physiological mechanisms by which ultrasound works, and its interaction with different musculoskeletal tissues
3. Improve practical skills through familiarisation with the user interface ('knobology') and keys for image optimisation





Is this course suitable for you?

This course is designed for health professionals or students involved in musculoskeletal rehabilitation, who would like to introduce themselves to, or expand their knowledge and skills with respect to musculoskeletal ultrasound.

This course does not cover therapeutic ultrasound.

Learning Objectives

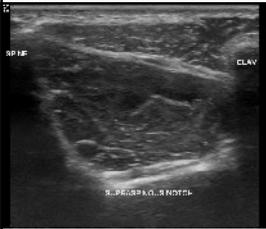
Upon completion of this course participants should be able to:

- Describe a variety of uses for musculoskeletal ultrasound
- Provide a general explanation of how ultrasound works and how it will interact with different tissue interfaces
- Identify and describe appropriate uses for the primary 'knobs' on an ultrasound machine
- Apply the principles of image optimisation to any musculoskeletal image, including minimisation of image artifacts

Content Outline

Lesson 2: Introduction to the uses of MSK US

MUSCLE



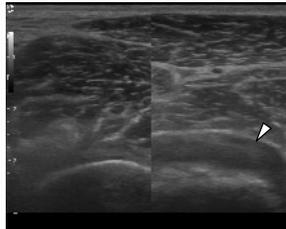
TENDON



Content Outline

Lesson 2: Introduction to the uses of MSK US

JOINT



NERVE



Content Outline

Lesson 3: Basic principles of ultrasound

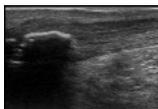


Basic Physiology



Bone
Muscle
Gas
Fluid

Principles of attenuation



Tissue Echogenicity

Content Outline

Lesson 4: Image optimisation & 'knobology'

Probe Basics – choosing a probe, probe handling
Optimising your image...

What to do



&

How to do it





Content Outline

Lesson 5: Troubleshooting MSK ultrasound
Understanding artifacts & how to avoid them

