

# Use of Ultrasound as a Didactic Resource in the Teaching of Human Anatomy to Medical Students: An Innovative Approach to Practical Instruction in the Field of Anatomy

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## Qualitative Component: Interviews

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### Interview Guide – Medical Students (Pre-implementation)

#### Prior Knowledge and Expectations

- What do you currently know about the use of ultrasound in the teaching of anatomy?
- Have you had any previous experience using ultrasound? If so, what was it like?
- What are your expectations regarding the use of ultrasound in the Human Anatomy course?

#### Perceptions

- How do you think ultrasound can benefit you in learning anatomy? And specifically with regard to the upper limb?
- What advantages do you think the use of ultrasound might offer compared with the traditional teaching method?
- Do you have any concerns or reservations about the use of ultrasound in your anatomy classes?

#### Preparedness and Motivation

- Do you feel prepared to use ultrasound as a didactic tool in your anatomy studies?
- Are you motivated to take part in this intervention involving the use of ultrasound?

#### Knowledge about the Programme

- What do you know about how ultrasound will be integrated into the Human Anatomy course?
- What changes do you expect in the teaching methodology with the inclusion of ultrasound?

#### Innovation and Improvement

- What is your opinion on the use of innovative technologies in medical teaching?
- Do you believe the inclusion of ultrasound may represent a significant improvement in the teaching of anatomy?

#### Expected Outcomes

- What outcomes do you expect from the inclusion of ultrasound in the Human Anatomy course?
- How do you think the use of ultrasound will affect your (or students') academic performance and understanding of the topography of the upper limb in Human Anatomy?

## **Closing Remarks**

- Is there anything else you would like to add regarding your initial expectations or perceptions about the use of ultrasound in the teaching of anatomy?

## **Interview Guide – Medical Students (Post-implementation)**

### **Overall Experience**

- How would you describe your overall experience with the use of ultrasound in the Human Anatomy course after completing the intervention?
- Did your perception of the use of ultrasound in anatomy teaching change after the intervention? If so, how?

### **Impact on Comprehension and Learning**

- Do you consider that the use of ultrasound improved your understanding of the topographic anatomy of the upper limb? Why?
- Can you give specific examples of anatomical concepts that you understood better thanks to ultrasound?
- How did ultrasound affect your ability to visualise and recall the relationships among different anatomical structures?

### **Comparison with Other Methods**

- How would you now compare ultrasound with other teaching methods you have used in your anatomy studies (for example, textbooks, anatomical models, dissection)?
- Do you prefer the use of ultrasound over other traditional methods? Why?

### **Challenges and Solutions**

- Did you face any difficulties when using ultrasound during the intervention? If so, how did you overcome them?
- What would you recommend to improve the use of ultrasound in future anatomy courses?

### **Application and the Future**

- Do you consider that the use of ultrasound should be extended to other areas of the subject? Which ones?
- How do you think the experience of using ultrasound in this course will prepare you for your future clinical practice?

### **Innovation and Improvement**

- What is your opinion on the use of innovative technologies in medical teaching after this intervention?
  - Do you consider that the inclusion of ultrasound represented a significant improvement in the teaching of anatomy? Why?
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