

# Home-made model for training of basic ultrasound technique

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### **Contact person**

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## **Organisation**

Name of the organisation Ghent University (UGent)
Department Veterinary skillslab
Country Belgium

#### SCOPE OF THE METHOD

The Method relates to	Animal health
The Method is situated in	Education and training
Type of method	Other

### **DESCRIPTION**

#### Method keywords

veterinary medicine skillslab training ultrasound dummy

## Scientific area keywords

Veterinary education clinical training

### **Method description**

In the skillslab, dummy models and simulators are used for teaching various clinical skills. Basic experience of ultrasound technique and how to work with an ultrasound machine can be obtained using a basic model containing different 3D structures. An important part of this first training process can be performed on a simulator in the skillslab.

### Lab equipment

Home-made basic model: a fluid-filled vacuum bag containing different 3D structures. The bag is placed in a small plastic container.

#### Method status

Still in development History of use

## PROS, CONS & FUTURE POTENTIAL

## Advantages

The use of educational animal models in a skillslab offers a number of significant advantages:

- Reduced use of laboratory animals and reduced discomfort for patients, as procedures can be practised on dummy models and simulators before performing them on a live animal.
- Teaching of clinical skills in a quiet and safe environment, reducing anxiety and stress for the veterinary student.
- Complex practical skills can be split into a number of small steps when practising them in the skillslab.

## Challenges

- Clinical training on live animals needed as well.
- Creating and repairing the home-made models is time consuming for a large group of students.
- A difficulty creating an ultrasound model is that air cannot be present in the bag (otherwise you have a lot of artefacts).

#### **Modifications**

Towards the future it will probably be attempted to create a more complex model with anatomically more realistic structures.

# **Future & Other applications**

Training for lab animal medical imaging techniques.

REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION









