

# Bovine simulator for training of sterile milk sampling technique

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## SCOPE OF THE METHOD

<b>The Method relates to</b>	Animal health
<b>The Method is situated in</b>	Education and training
<b>Type of method</b>	Other: Dummy models and simulators
<b>This method makes use of</b>	Animal derived cells / tissues / organs

## DESCRIPTION

### Method keywords

veterinary medicine

simulator

skillslab training

dairy cow

milk sampling

## **Scientific area keywords**

Veterinary education

clinical training

## **Method description**

In the skillslab, dummy models and simulators are used for teaching various clinical skills. The veterinarians in training need to learn how to obtain a sterile milk sample from a cow. Although training on living animals is important, a part of the training process can be performed on a bovine commercial or home-made simulator in the skillslab.

## **Lab equipment**

° Home-made low fidelity model: udder model

° Commercial high-fidelity models: <https://koeierij.nl/>

## **Method status**

History of use

Internally validated

## **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

High cost of models, clinical training on live animals needed as well. Often leakage of the teat, but replacement is possible.

## Future & Other applications

Training for lab animal examination.

## REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION

### Associated documents

[20210316\\_131115.jpg](#)

## PARTNERS AND COLLABORATIONS

### Organisation

**Name of the organisation** Ghent University (UGent)

**Department** Veterinary skillslab

**Country** Belgium

**Geographical Area** Flemish Region

*Coordinated by*



*Financed by*

