Bovine simulator for training of sterile milk sampling technique

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Organisation
Name of the organisation Ghent University (UGent)
Department Veterinary skillslab
Country Belgium
Geographical Area Flemish Region

SCOPE OF THE METHOD

<table>
<thead>
<tr>
<th>The Method relates to</th>
<th>Animal health</th>
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</thead>
<tbody>
<tr>
<td>The Method is situated in</td>
<td>Education and training</td>
</tr>
<tr>
<td>Type of method</td>
<td>Other: Dummy models and simulators</td>
</tr>
</tbody>
</table>

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

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