



Czech University of Life Sciences Prague

Department of Animal Sciences - Faculty of Agrobiology, Food and Natural Resources

Small ruminants in the Czech Republic

Czech Sheep genetic resources



2020: 952 animals bred in 52 flocks



2020: 1928 animals bred in 28 flocks

Czech Goat genetic resources



2020: 1895 animals bred in 71 flocks

2020: 687 animals bred in 60 flocks



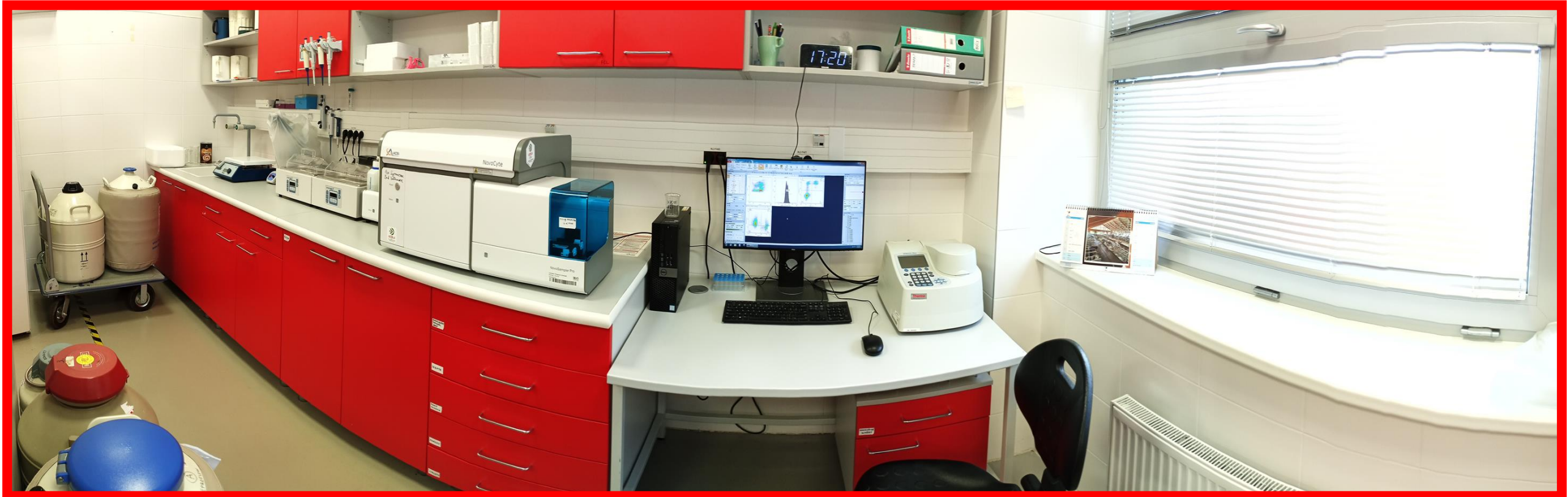
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Laboratory of Reproduction and Sperm Analysis



Sperm collecting and freezing equipment



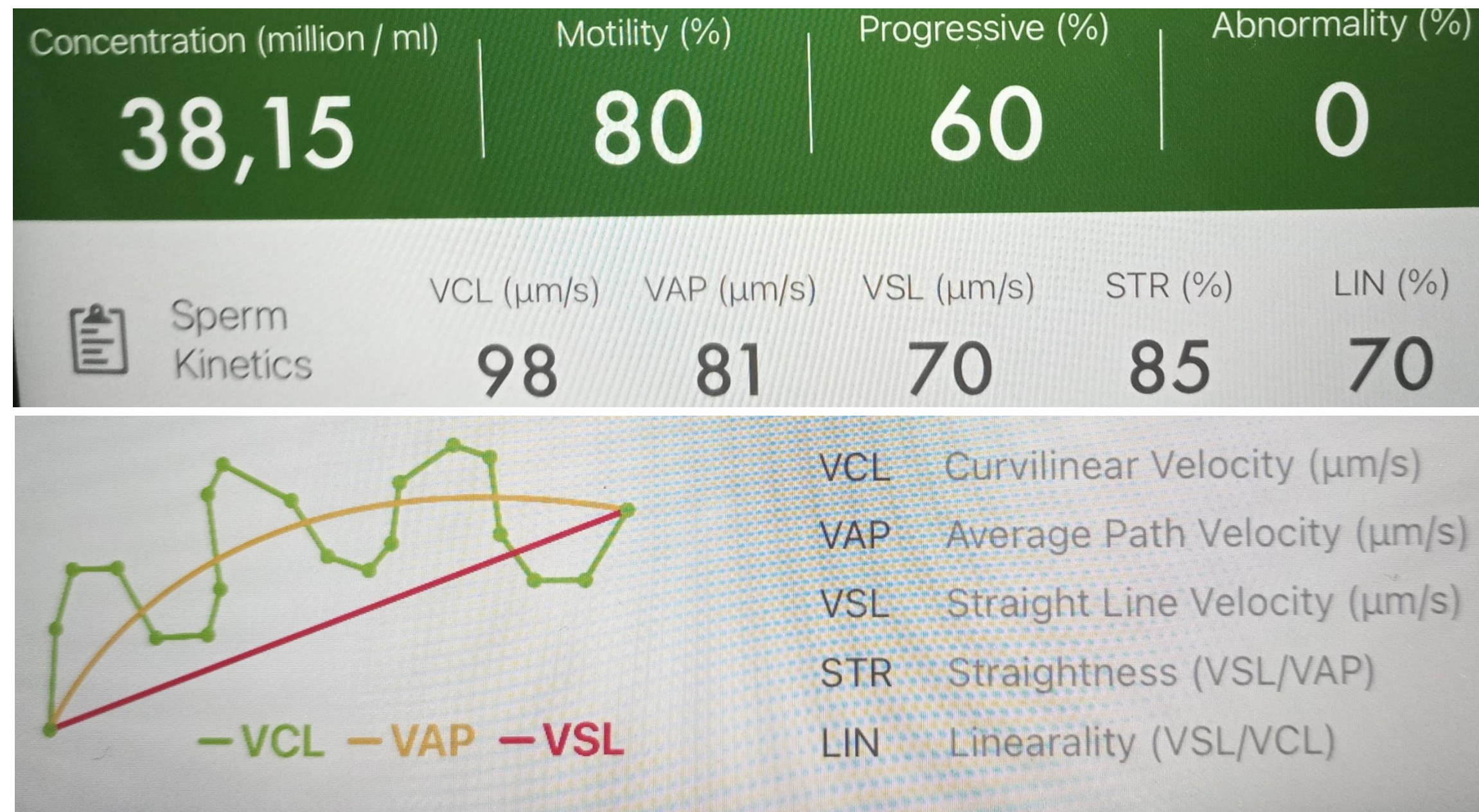
Analytical equipment



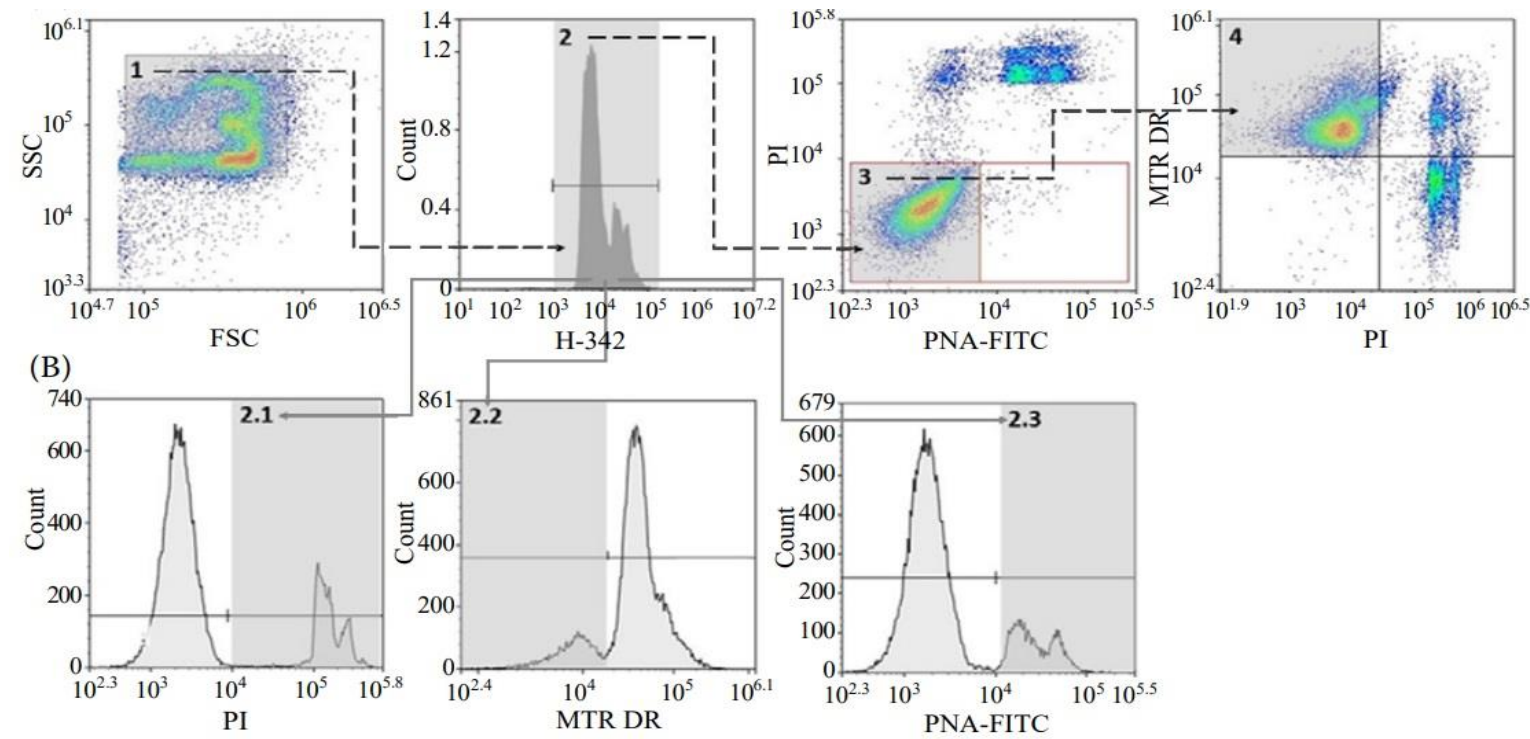
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mCASA



Flow cytometer



H-342 Hoechst 33342 (DNA content)
PI Propidium Iodide (Plasma membrane dam.)
MTR DR Mitotracker Deep Red (Mito- status)
PNA Peanut agglutinin (Acrosome dam.)



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Current and future research lines

I. Optimizing ovine/caprine sperm cryopreservation (and liquid storage)

- Modification of diluents
- Modification of freezing and thawing rates

I. Prediction of ovine/caprine sperm freezability

II. Prediction of ovine/caprine sperm fertilizing ability

- *In vitro* sperm quality (CASA, FC) **versus** results of Artificial Insemination



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Artificial insemination

Proof of concept of ovine artificial insemination by vaginal deposition of frozen-thawed semen under UK sheep-farming conditions

J. P. Crilly, L. Söderquist, A. Holmström,
N. D. Sargison

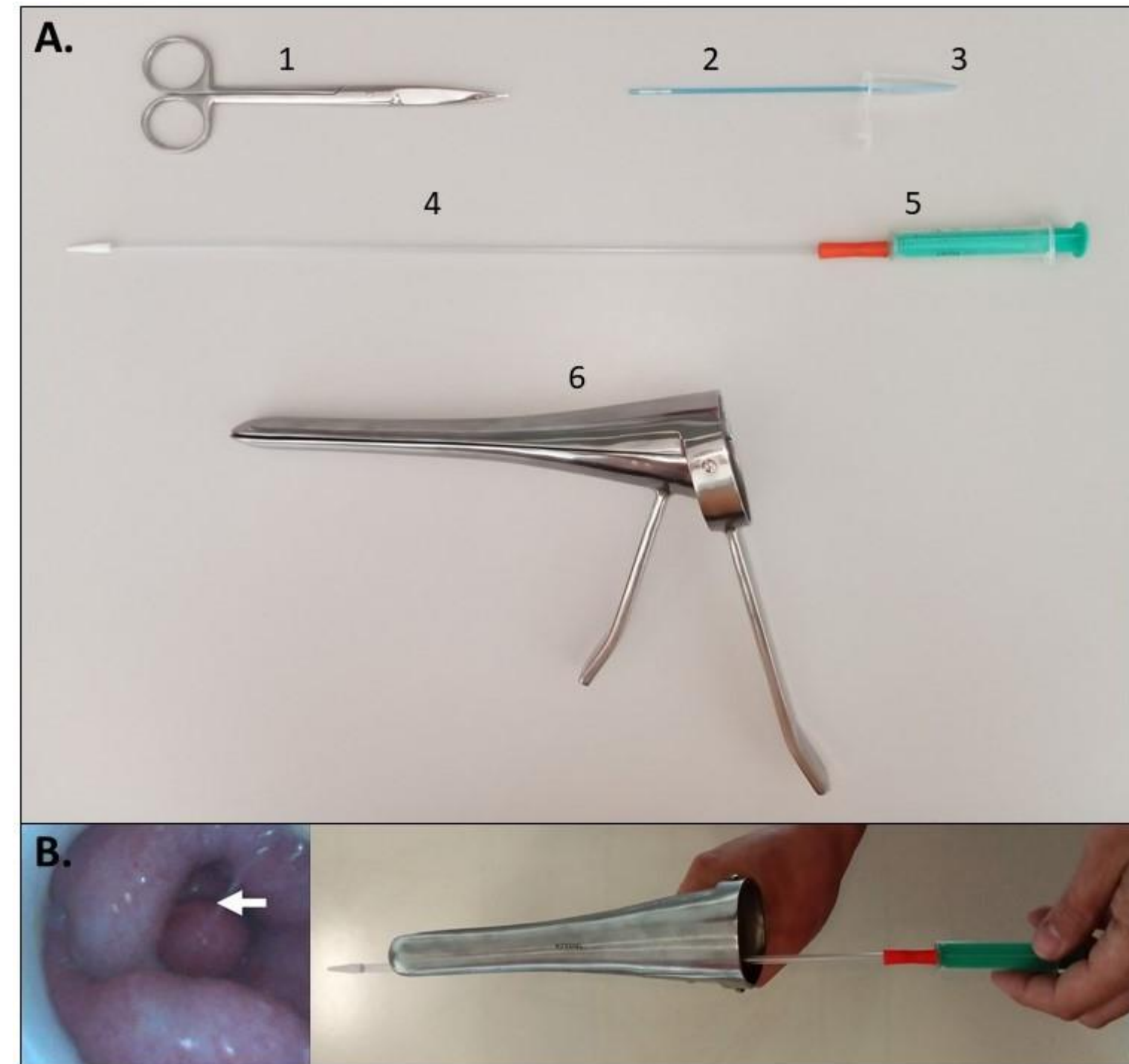
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