Aline S Camargos et al., J Vet Sci Technol 2017, 8:4(Suppl)
DOI: 10.4172/2157-7579-C1-025

Testing different approaches for image capture of spermatic cells

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Statement of the Problem: The objective was to test three methods of low cost image capture, in order to make possible the future use of the software in development.

Methodology & Theoretical Orientation: Twenty frozen semen samples were used to make the images. One drop of 10μL of semen was added on a slide, and this was carried under a microscope attached to a microscope camera and with a digital camera and a camera phone positioned in the eyepieces of the microscope by means of a holder. A 20-second videos were made. From them, pictures were taken, which the technician used to do the sperm count to compare the range and accuracy of each image capture device. The results were submitted to analysis of variance and Tukey's test, at 5% of significance.

Findings: The mean number of spermatozoa counted in the images differed, being 145.10 ± 98.72 for the microscope camera, 17.90 ± 11.25 for the digital camera and 407.80 ± 299.42 for the cellular camera ($p < 0.05$).

Conclusion & Significance: It was observed a great variation of the performance of the different types of image capture, being that the camera of the cell obtained the best performance.

Biography

Aline Camargos has her expertise in reproduction of domestic animals. Her most recent projects aim to develop new technologies for animal reproduction. Her research group has developed a software to analyze bovine sperm, a Computer-Assisted Sperm Analysis named SlimCASA. Financial support by CNPq and IF Goiano.

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