

## THE USE OF FINE NEEDLE ASPIRATION CYTOLOGY FOR SPERMATIC EVALUATION IN CATS

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## OBJECTIVE

Compare histologies and cytologies of 9 male cats to determine the correlation between the number of spermatozoa observed in both techniques, in order to evaluate if cytology is a valid method for analysing sperm function in cats.

## **MATERIAL & METHODS**





**Figure 2.** Spermatozoa count in cytology, optical microscope, 600x.

**Figure 3.** Spermatozoa count in histology, software NDP View 2 (Hamamatsu Photonics, Japan), 400x.

There is no correlation between cytological 600 and histological counts.

## **DISCUSSION & CONCLUSIONS**

- The study highlights the viability of cytology through FNA and histology as tools to assess the presence of spermatozoa in the testicles of domestic cats.

- The quantity of spermatozoa in the histology can significantly vary depending on the analysed section of each testicle due to the distribution of spermatozoa during the process of spermatogenesis, which also explains the variability among the cytologies, as the number of spermatozoa differs depending on the testicular region from which the samples are obtained through FNA.

- The variability among the testicles of different cats can be influenced by the age of the animals, as cats under 6 months old may have incomplete spermatogenesis. We are unaware of the age of the cats included in the study, and we can't rule out that they may be too young to exhibit sufficiently mature spermatogenesis.

- The limited number of observations doesn't provide a significant correlation between testicular histology and cytology. It would be necessary to include more animals in the study and analyse more fields from each sample in order to achieve more representative results.