

MEASUREMENT OF NEGRI BODIES USING IMAGE ANALYSER¹

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In this study, an attempt was made to measure the size of Negri bodies from the brain specimens in the Department of Veterinary Pathology, Madras Veterinary College.

Materials and Methods

Impression smears from five positive rabies cases each from canine, bovine and caprine were taken from hippocampus were stained using William's modification of van Gieson's stain. From each case ten Negri bodies were measured in random using Carl Zeiss Image Analyser KS 300 software. Thus, 50 observations were made for each species.

Results and Discussion

The diameter of Negri bodies in canine, bovine and caprine were found to be within the range of 2.71 to 14.37 μ m, 3.17 to 22.25 μ m and 5.23 to 24.76 μ m respectively. This was in agreement with Tierkel and Atanasiu (1996) who stated that it was

generally found to be between 0.24 to 27.0 μ m. Similar findings were also made by Velleca and Forrester (1981) and Jubb and Huxtable (1993). The mean \pm SE values of Negri bodies of canine, bovine and caprine were 7.58 \pm 0.75 μ m, 8.88 \pm 1.09 μ m and 12.41 \pm 1.36 μ m respectively. The statistical analysis showed that the size of Negri bodies differed significantly ($P < 0.05$) between species.

References

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