

SUMMARY

In this study, morphometric measurements were taken and compared with each other of healthy feline kidneys using radiography, ultrasonography and magnetic resonance. Mean ages 29.90 ± 14.13 months and mean weight 3.65 ± 0.75 kg of 10 males and 10 females healthy Persian cats were examined. Anesthesia was not necessary for radiology and ultrasonography. But prior to MRI, the combination of metopimidine HCl (Domitor®, Pfizer) 0.08 ml/kg – ketamine (Ketasol®, Interhas) 6 mg/kg were injected intramuscularly. After the cats had been placed dorsal recumbency position and stabilized on the table, the images of kidney were taken.

The maximum length, width and volume of right and left kidneys were measured in images which were taken by different imaging techniques. These measurements were comparatively considered with statistical methods. In conclusion, the data of healthy feline kidneys which measured by different visualization techniques and differences of data were determined.

Key words: Cat, Kidney, Morphometry