



11th International Conference of Asian Society of Conservation Medicine

One Health in Asia Pacific
with
**Wildlife Disease Association Australasia (WDA) and Udayana
University**

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Poster session
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Morphology and morphometry of Kintamani dog kidney

I Kadek Pradhana Putra,, Luh Gde Sri Surya Heryani,, Ni Luh Eka Setiasih,, Ni Nyoman Werdi Susari,, I Putu Suastika

Faculty of Veterinary Medicine,, Udayana University

Kintamani dog is a local mountain type dog that lives in the surrounding of Sukawana Village,, Kintamani District,, Bangli Regency,, Bali.. Research on the urinary system in Kintamani dog has never been done.. This study aims to determine the morphology of anatomy and morphometrics of the kidney (rren)) in Kintamani dog macroscopically and microscopically.. The sample of this study used the kidney of 5 Kintamani dogs originating from the village of Suka wana,, Bangli.. Kidney tissue was taken for histological examination used Kiernan method and Hematoxylin - eosin (HHE)) staining.. Weight measurement data,, length,, width and renal thickness were analyzed using Independent Sample T - test to compare left and right kidney.. Meanwhile,, the anatomical and histological structure of the kidneys were analyzed descriptively qualitatively.. The results showed that the left and right kidney weight was significantly different (pp <00.05)) while the length,, width and thickness were not significantly different.. Measurements of right renal morphometry,, weight:: 19.39 ± 4.24 g;; length:: $50,19 \pm 2,43$ mm;; width:: 29.57 ± 1.94 mm;; cortex thickness:: 6.17 ± 0.45 mm;; medulla thickness:: 8.48 ± 0.56 mm and pelvis thickness:: 8.11 ± 1.29 mm.. While t he left kidney,, weight:: 20.51 ± 4.20 g;; length:: $50,88 \pm 2,38$ mm;; width:: 29.40 ± 1.65 mm;; cortex thickness:: 6.17 ± 0.31 mm;; medulla thickness:: 8.50 ± 0.49 mm and pelvis thickness:: 8.95 ± 2.08 mm.. Results of renal histomorphometry measurements,, capsula thick ness:: $37,18 \pm 5,67$ m m;; glomelurus area:: $8598,34 \pm 1277,06$ m m;; cortex thickness:: $3798,34 \pm 603,54$ m m and medulla thickness:: $1485,09 \pm 286,92$ m m..

Keywords : histomorphometry,, kidney,, Kintamani dog,, morphometry,,

Presenter:: Luh Gde Sri Surya Heryani Corresp onding author:: Luh Gde Sri Surya Heryani (ssurya_heryani@@uunud..aac..iid))



Certificate of Participation

is presented to

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