## Clinical and Histopathologic Diagnosis of Renal Hypoplasia in a Dog

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Signalment: A 9-year old, intacted female Miniature Pinscher dog was presented with history of dermatitis and alopecia

Results: On physical examination and skin test, alopecia and dermatitis were detected. The complete blood count values, serum biochemistry and electrolytes were within the reference range. By performing plain radiographic examination, mild right renomegaly, mild hepatomegaly and absence of left kidney were found. Ultrasonographic findings included: small sized left kidney with dilated pelvis and loss of corticomedullary junction, and two renal cysts of right kidney. On intravenous pyelogram, absence of contrast imaging on the left kidney, two circular contrast defects on right kidney and fair of right renal function were detected. Exploratory unilateral nephrectomy was conducted to examine small left kidney. On histopathologic examination, renal hypoplasia was diagnosed.

Clinical relevance: Congenital renal hypoplasia is rarely reported congenital malformation of kidney of dogs in veterinary pathology. In this case, renal hypoplaia was suspected by clinical diagnostic examination and definitively diagnosed by histopathologic examination.

Key words: congenital hypoplasia, kidney, clinical diagnosis, histopathology, dog

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