

## Diagnostic Imaging of Polycystic Kidney Disease in a Guinea Pig

Jinwon Kim, Minsu Kim, Sehoon Kim, Dongho Noh, Sangchan Kim, Ulsoo Choi, Namsoo Kim and  
Kichang Lee\*

*Department of Veterinary Medical Imaging, College of Veterinary Medicine,  
Chonbuk National University, Jeonju, Korea*

**Signalment:** A 4-year-old, female domestic guinea pig with clinical signs of anorexia and depression was referred to Chonbuk Veterinary Medical Center of Chonbuk National University. Abdominal distention was apparent on physical examination.

**Results:** Two oval-shaped soft tissue opacities were detected in the area of the kidney on abdominal radiographs. These mass occupied almost half of abdomen that displacing intestine ventrally and caudally. Gas filled stomach was also founded. All over the renal parenchyma, round anechoic structures with define rim compatible with polycystic kidney disease were observed on abdominal ultrasonography. The patient's condition deteriorated severely and expired. Post-mortem examination was made. The kidneys are enlarged because of the development of many tubular cysts often cuffed by some excess fibrous connective tissue. Based on those diagnostic imaging and microscopic findings, polycystic kidney disease was confirmed in a guinea pig.

**Clinical relevance:** Polycystic kidney disease in guinea pig is rare. Diagnostic imaging, especially ultrasonography can provide useful and practical information for making a diagnosis of kidney problem in guinea pig.

**Key words:** polycystic kidney, guinea pig, ultrasonography, radiography

\*Corresponding author: [kclee@chonbuk.ac.kr](mailto:kclee@chonbuk.ac.kr)