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### **Ehlers Danlos Syndrome in a Kangal Breed Puppy**

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#### **Abstract**

A Kangal breed, 1,5 month-old, male dog was presented with the complaints of spontaneous skin lesions on lateral left hindlimb and different location of body. In general examination, the dog had lymphadenopathy on submandibular and popliteal lymph nodes, but the other parameters were normal. At inspection, the dog was lateral recumbent and a ulcerative skin wound was seen on lateral side of tarsal joints. There was also a right eye microphthalmia and buphthalmos inferior. In addition, there were foldings on extremity skins, swellings with diffuse fluctuation in both hindlimbs and prolapsing in dorsally pelvic skin. In the palpation, hypermobility and laxity of tarsal and carpal joints, general skin hyperextensibility and fragility was determined. Radiological examination revealed bilaterally tarsal and carpal joints space widened. In ultrasonographic examination of fluctuation regions, with unclear limits, anechoic and some corpuscular hyperreflective particles in heterogeneous areas was detected. Skin extensibility index rate was found as %21 (dog normal SEI- Skin Extensibility Index rate %8-15). Histologically, it was identified that epidermis and dermis thickness were markedly diminished, dermal collagen fibers were indicated characteristic of thin and pale staining, irregularly organized and the spaces between fibers were increased. The dog owner was informed about the pathology that there was no therapy for the disease, but consistent medical applications could allow to live long lives for the puppy. Reporting to clinical and histopathological findings of Ehler Danlos syndrome in a Kangal breed puppy was aimed with the case.

**Keywords:** Puppy, Ehler Danlos syndrome, Skin hyperextensibility, Joint laxity.

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