Osgood-Schlatter Disease in an English Setter

Dear Sir,
The question whether Osgood-Schlatter disease (OSD) exists in the dog was raised in your journal four years ago (1). D. von Pfeil et al. concluded that the term OSD was not appropriate to use for dogs, as traction injuries to the tibial tuberosity were not found to cause the pathognomonic calcified particles within the distal aspect of the patellar ligament in this species (1). Subsequent case reports concerning OSD in dogs have not been found.

We hereby wish to inform you about a young dog with clinical signs, radiological changes, and ultrasonographic findings corresponding to true OSD.

A twenty-month-old, 20 kg, male English Setter was referred to the Norwegian School of Veterinary Science (NVH) for evaluation of intermittent bilateral pelvic limb lameness. According to the owner, the lameness had begun fifteen months prior to admission and was most obvious on the right pelvic limb. No restrictions had ever been put on the dog’s desire to run.

On referral, the dog showed shortened pelvic limb strides while walked and trotted on a leash. He could change posture carefully from a standing into a normal sitting position. Limb palpation revealed swollen and painful stifle joints and tibial tuberosities. The most obvious pain response was provoked by maximally extending the right stifle joint.

Plain lateral and caudocranial radiographs of the stifles showed ossicles at the patellar ligament insertion, swelling of the patellar ligament and joint effusion, bilaterally [Figure 1 a and Figure 2 a]. On ultrasonographic examination, a significant thickening of the distal ca. 1.5 cm part of both patellar ligaments was identified. The thickened ligamentous tissue showed a considerable reduction of echogenicity, an absence of collagen fibre parallelism and contained several hyperechogenic (calcified) structures.

On the basis of clinical history, orthopaedic examination, and diagnostic imaging a diagnosis of bilateral OSD was made. Shockwave therapy was offered, but the owner declined and elected conservative treatment including exercise moderation and long-term anti-inflammatory medication.

At a check-up two months later, the dog’s clinical signs were unchanged. Plain radiographs were repeated and revealed further development of the patellar ligament ossicles at both stifles [Figure 1 b and Figure 2 b]. The owner considered the dog to be in good shape and therefore rejected any treatment but continued exercise moderation.

One year after the first referral, the dog (now 25 kg) was readmitted to the NVH for a second check-up. On readmission, the dog’s clinical signs were similar to those observed at the initial examination with the exception of

Figure 1  Lateral radiographs of the right stifle of an English Setter with bilateral Osgood-Schlatter Disease. The radiographs were made when the dog was a) 20-months-old, b) 22-months-old, and c) 32-months-old. There are calcified particles at the patellar ligament insertion, thickening of the distal part of the patellar ligament and effusion of the joint.

Figure 2  Lateral radiographs of the left stifle of the same dog as presented in Figure 1. The radiographs were made when the dog was a) 20-months-old, b) 22-months-old, and c) 32-months-old and show similar findings as for the right stifle.

References:

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Less painful stifle joints and tibial tuberosities. Plain radiographs were repeated and revealed fusion of the largest patellar ligament ossicle to the cranial and proximal aspect of the tibial tuberosity, bilaterally (Figure 1c and Figure 2c). In addition, both patellar ligaments were found to be less swollen than registered one year before.

Based on this case, we consider it appropriate to use the term OSD in dogs.

Sincerely,

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References