Bog Spavin and Its Management in a Local Horse of Kashmir-a Case Report

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Abstract

A 4 year old stallion weighing 230 ± 2.5 kg with the complaint of swelling of talocrural joint and left hind limb lameness for last 14 days. Based on the case history, clinical sign, and response to a flexion test the animal was confirmed as having the bog spavin. The case was managed with anti-inflammatory drug therapy and pressure bandaging. The animal recovered successfully. There was no re-occurrence of swelling up to 6 months when last examined indicating the complete recovery.

Keywords: Bog Spavin; Horse; Pressure bandaging

Introduction

Bog spavin, tarsal hydrathrosis or talocrural effusions is a distention of the joint capsule of the talocrural articulation as a result of chronic synovitis [1]. It is more commonly seen in younger horses, although it can occur in horses of any age and can affect one or both hocks [2]. The bog spavin is recognised by three characteristic fluctuating swellings [3]. The largest of the three swellings is situated dorsomedially at the level of medial side of the talus and two smaller distensions located one on either side at the posterior surface of the hock. These swellings vary in size depending on the severity of the underlying cause [4]. Bog spavin may be associated with lameness which can range in degree from mild to severe depending on the cause [5]. In horses younger than three years of age, most cases of bog spavin are caused by an osteochondrosis of joint talocrural, while in older and fully mature horses; it is most likely because of chronic strain of the joint capsule [1]. This case report presents the diagnosis and successful management of bog spavin in a local horse of Kashmir.

History and Observations

A 4 year old stallion weighing 230 ± 2.5 kg was referred to Teaching Veterinary Clinical Services Complex, faculty of Veterinary Sciences and Animal Husbandry, SKUAST-Kashmir with the complaint of swelling of talocrural joint and left hind limb lameness for 14 days. Clinical examination revealed distended, soft fluctuant acute swelling on the dorsomedial side of talocrural joint as well as of the medial and lateral planter pouches [Figure 1]. The horse was lame on the left hind limb (score 3 as per AAEP scoring system) and evinced pain while palpating at the talocrural joint and response to a flexion test was negative. Orthodiagnal radiographic views of talocrural joint showed enlarged joint space filled with a fluid with no bony changes. The vital signs such as temperature, pulse and respiratory rate were within normal physiological range.

Diagnosis

Diagnosis of bog spavin was done on the base of typical clinical signs that is three characteristic fluctuating distortions of the talocrural joint. However the radiographs of the hock joint didn't show any abnormality. Based on the case history, clinical signs, and response to a flexion test the animal was confirmed as having the bog spavin due to trauma.

Treatment and Management

From the affected joint after shaving and through scrubbing around 14 ml of serous fluid was drained with use of 2 inch long 20 gauge sterile needle (Figure 2). The animal was than administered 2 ml isoflupredone acetate intra-articularly and same was repeated after one week. The pressure bandage was applied around the hock joint for 21 days (Figure 3). The horse was than administered 12 ml phenyl Butazone Intramuscularly (IM) once a day for five alternate days. Removal of pressure

Figure 1: Swelling on anterio medial side at left hock joint.
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Discussion

Bog spavin is generally an indication of underlying pathology within the joint and possible causes include synovitis, degenerative joint disease, or excessive strain of the joint capsule [2]. The unilateral case is more likely to be sequelae of sprain or chip fracture in the tarsus or osteochondritis dissecans lesions associated with the cranial intermediate ridges of digital tibial and lateral trochlear rides of the tibial tarsal bone [6]. The deficiency of calcium, phosphorous, vitamin A and vitamin D alone or in any combination can apparently produce the bog spavin [1]. Bog spavin is a physical finding, and does not directly cause lameness, however sign that horse has joint disease, which is a very significant finding. Usually lameness will occur if the work load of the horse is increased [7]. In the present case radiography didn’t revealed any abnormal findings in the hock joint thus ruled out bone spavin from bog spavin [8].

Depending on the cause of the bog spavin, several treatments are available and if the condition is caused by traumatic injury (most commonly a ‘strain’) and there is no associated lameness, rest and some anti-inflammatory medication is all that is needed [5]. Intra-articular injection of corticosteroids decreases formation of excess fluid these cases [2]. However, best results are obtained by counter pressure following corticosteroid administration [2,9]. Infection of joint causes severe synovitis and should be treated as an emergency [8]. The present case report described the diagnosis of bog spavin and its successful treatment with corticosteroid and pressure bandaging. [5]. Intra-articular injection of corticosteroids decreases formation of excess fluid in these cases [2]. However, best results are obtained by counter pressure following corticosteroid administration [2,9]. Infection of joint causes severe synovitis and should be treated as an emergency [8]. The present case report described the diagnosis of bog spavin and its successful treatment with corticosteroid and pressure bandaging.

Conclusion

Bog spavin should not be treated lightly, as the infection of joint can cause severe synovitis and therefore it’s in best interest of the horse and owner to find the cause and treat the same even if the horse does not show lameness.

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References


Figure 2: Straw colored fluid through needle at hock joint.

Figure 3: Pressure bandaging done on hock joint.