

40(2): 1041.

Pandey, S.S., Bharti, B., Patider, A. and Shukla, N. (2011) Surgical correction of corneal dermoid in a cross bred calf. *Vet. Pract.*, **12**(1):31-32

Pawde, P.K., Kinjavdekar, A.M., Aithal, P., Amarpal, H.P. and Hooque, M. (2005) Survey of eye disorders in domestic animal. *Indian J. Anim. Sci.*, **75**(1): 33-34.

Roberts, S.R. and Lipton, J. (1995) The eye. In: Feline Medicine and Surgery. Catcott, E. J. (ed). 2nd Edn, American Vet-

erinary Publication, Inc, USA, pp: 485-518.

Shiju Simon, M., Justin William, B., Rao, G. D., Sivashanker R. and Suresh Kumar, R. (2010) Congenital malformations in ruminants and its surgical management. *Vet. World.*, **3**(3) 118-119.

Yeruham, J., Perl, S. and Liberboim, M. (2002) Ocular dermoid in dairy cattle – 12 years survey. *Revue. Med. Vet.*, **153**(2) 91-92.

Indian Vet. J., September 2016, 93 (09) : 66 - 67

Unilateral Rupture of Prepubic Tendon in Cattle - A Report of Three Cases

S. Prakash¹, M. Selvaraju and K. Ravikumar

Department of Clinics, Teaching Veterinary Clinical Complex, Veterinary College and Research Institute, Namakkal- 637002.

(Received : 29-06-2015; Accepted : 22-09-2015)

Abstract

A review of three cases in unilateral rupture of prepubic tendon in bovines is reported.

Key words: *Unilateral, Prepubic desmorrhexis, crossbred cow.*

Prepubic desmorrhexis of pregnancy is seen most commonly in mare and rarely in cow and ewe (Roberts, 1986) due to the presence of subprepubic tendon which provide additional support to the abdominal wall (Gyan singh., *et al* 2014) in these species. This report describes about the rare occurrence of unilateral rupture of prepubic tendon in bovines during last trimester of gestation.

Case History and Observations

One Holsteins Friesian crossbred (Fig. 1) and two Jersey crossbred (Fig.2) full of sudden alteration in the contour of the ventral abdomen during the past three - five days. term pregnant cows were presented to the Teaching Veterinary Clinical Complex, Department of Clinics, Veterinary College and Research Institute, Namakkal with the history These cows had ventral edema from the udder to the xiphoid cartilage

of the sternum. This swelling was non painful and unilateral and it hindered the locomotion. Vaginal examination revealed the non-dilated cervix in all the cows, none of the cows shown straining. Marked enlargement of the right ventral abdominal floor of the affected cows along with deflection of the mammary glands cranially was noticed. Rectal temperature, heart rate and respiratory rate were within the normal physiological range. Based on the clinical findings these cases were diagnosed as rupture of prepubic tendon.

Treatment and Discussion

Prepubic tendon rupture occurs due to violence or trauma, twins, hydrops of fetal membranes, fetal giants in prolonged gestation, and veratrum poisoning in case of ewes. Rupture of prepubic tendon due to hydrallantois was reported by Selvaraju *et al.* (2010). Rupture of prepubic tendon lead to loss of all the support of ventral and lateral abdominal wall and ventral support for the abdominal organs. There by the organ exert the pressure on ventral abdominal vein lead to development of edema on ventral abdominal region. In these cases similar findings were observed along with stretching of

¹Corresponding author : Email : prakashsmile80@gmail.com



Fig 1. Holstein Friesian crossbred cow affected with unilateral prepubic tendon rupture.

the udder downward and forward. The attitude was a typical sawhorse one, with the elevation of tail, head and the ischial tubercities and a ventral curvature in the loin. Although all the cows were in full term pregnant, considering the prognosis of the case and economy of the farmers, no treatment was indicated, all these three cows were culled. These animals are not fit for further breeding. Rupture of prepubic tendon occur more commonly in draft mares when compare to light mares (Roberts, *loc cit.*). Rarely massive haematomas in the region of the bovine udder may be mistaken for rupture of the prepubic tendon (Roberts, *loc cit.*). In the cow caesarean is more successful than in the mare and may possibly be indicated in this condition. In relieving dystocia following rupture of prepubic tendon, rolling the cow or mare on its side or back will aid in bringing the foetus to the pelvic inlet for removal (Roberts, *loc cit.*). Usually bilateral rupture of prepubic tendon



Fig 2. Jersey crossbred cow affected with unilateral prepubic tendon rupture.

has been reported (Selvaraju *et al.*, *loc cit.*) however, the present paper records the occurrence of unilateral prepubic tendon rupture in Jersey and Holsteins Friesian breeds of cows.

Summary

A report of unilateral rupture of prepubic tendon in One Holsteins Friesian crossbred and two Jersey crossbred cows was reported.

References

- Gyan Singh, Pandey, A.K., Sandeep Kumar and Ahmad, S.Q. (2014) Dystocia due to Rupture of Prepubic Tendon in a Mare. *Indian J. Anim. Reprod.*, **91**:73.
- Roberts, S.J. (1986) Veterinary Obstetrics and Genital Diseases. In: Veterinary Obstetrics, 2nd Ed. CBS Publishers and Distributors PVT. LTD., pp 184-186.
- Selvaraju, M., Ravikumar, K., Palanisamy, .M, Prabakaran, V., Ezakial Napoleon, R., Ravi, R and Chandrahasan, C., (2010) Rupture of prepubic tendon due to Hydrallantois : A case report. *J Vet. Ani. Sci.*, **41**: 64-65.