

UNILATERAL BARTHOLIN'S GLAND CYST IN A JERSEY CROSSBRED COW

C.SOUNDARARAJAN¹, M.ARUL PRAKASH² AND K.SENTHIL KUMAR³

¹Department of Veterinary Parasitology, Madras Veterinary College,
Tamil Nadu Veterinary and Animal Sciences University, Chennai – 600 007, Tamil Nadu.

Received : 13.10.15

ABSTRACT

Accepted : 19.12.15

A case of unilateral Bartholin's gland cyst in crossbred Jersey cattle is reported.

Key words: Bartholin's gland – Jersey crossbred cow

INTRODUCTION

Bartholin's glands are located in the constrictor muscles of the vestibule. They are about 1.5 to 3.0 cm in diameter. In cows, each of these glands open to lateral wall of the vestibule about 2.5 cm caudal to the vagina by a single duct (Roberts, 1971). The Bartholin's glands secrete mucus most actively at estrus, and have a tubuloalveolar structure (Marzano et al., 2004). This paper reports the unilateral Bartholin's gland cyst in a Jersey crossbred cow.

CASE HISTORY AND OBSERVATION

A seven year old crossbred Jersey cow was examined for unilateral cyst like protrusion from the vulvar lip at Kancheepuram districts, Tamil Nadu, India. The enlargement of cyst was reported to be progressing since about 4-5 months and while lying down pink coloured round mass coming between vulvar lips. Animal was able to urinate with normal flow without any disturbance. No obstruction was noticed during natural service. On careful examination, thin walled cyst with 4.5x6.0cm in diameter covered with vaginal mucosa was protruded on left lateral wall of the vagina. On palpation, swelling was soft, fluctuating and painless. A lemon sized cyst 4.5x6.0 cm in diameter was observed in the left lateral wall of the vagina

TREATMENT AND DISCUSSION

Bartholin's gland cyst was mistaken as vaginal prolapse and the condition was diagnosed as unilateral Bartholin's cyst (Fig.1). Fathalla *et al.* (1978) mentioned that trauma and extension at the time of calving lead to local necrotic vulvo-vaginitis. A straw coloured fluid (40ml) was evacuated from the cyst. The cavity was thoroughly irrigated with 1:100 Lugol's iodine. Caudal epidural anaesthesia with 10 ml of 2% Lignocaine was given to remove the cyst by careful dissection. The cow was treated with Entrofloxacin injection (5mg/kg b.wt, I/M), Meloxicam (10ml, I/M) and Chlorphenamine maleate (10ml, I/M) for 3 days and the animal recovered completely.

In the present study, the Bartholin's gland cyst had occurred unilaterally in aged Jersey crossbred cow. This is in accordance with Roberts (1971) who stated that it occurs mostly in old aged animals. Selvaraju *et al.* (2010) and Manokaran *et al.* (2014) also reported unilateral Bartholin's gland cyst in aged Jersey and Holstein crossbred cow, respectively. Whereas, Bademkiran *et al.* (2009) reported Bartholin's gland cyst in Holstein heifer. *Brucella abortus* and *Brucella melitensis* also were isolated from abscess of Bartholin's gland (Fathalla *et al.* 1978 and Peled *et al.* 2004) and Bademkiran *et al.* (2009) observed high albumin in the cystic fluid. In the present

REFERENCES

- Bademkiran,S., Yesilman,S.and Yokus,B. (2009). Unilateral Bartholin gland cyst in apregnant heifer.*F.U.Sag.Bil.Vet.Derg.*,**23(1)**: 61 – 63
- Balasubramanian, S., Arunmozhi,N., Ravisundar George, Sarath,T. and Rajasundaram,R.C. (2014). A rare case of unilateral cystic Bartholin's gland in a Jersey crossbred cow. *Indian Vet.J.*,**91**: 87-88.
- Fathalla, M., Abdou, M.S.S. and Fahmi, H.(1978). Bartholin gland cyst in the cow.*Can. Vet. J.*,**19**: 340.
- Manokaran, S., Sivasankar, K., Palansamy,M., Selvaraju,M. and Ezakial Napoleon,R. (2014). Unilateral Bartholin's gland cyst in a Holstein Friesian crossbred cow. *Int. J. Livest. Res.*,**4(9)**: 48-50.
- Marzano, D.A.and Haefner, H.K. (2004). The Bartholin's gland cyst: past, present, and future. *J.Lower Genital Tract Disease.*, **8** (3): 195–204.
- Peled, N., David, Y. and Yagupsky, P. (2004). Bartholin's gland abscess caused by *Brucella melitensis*.*J.Clinical Microbio.*, **42** (2): 917–918.
- Roberts, S.J. (1971). *Veterinary Obstetrics and Genital Diseases (Theriogeology)*, 2ndEdn., CBS Publishers and Distributors, India. pp 772.
- Selvaraju, M., Palanisamy, M., Prabakaran, V., Ravikumar, K., Ravi, R. and Chandrahasan, C. (2010). Cystic Bartholin's gland in a Jersey crossbred cow: A case report. *Indian J.Field. Vet.*, **5** (4): 74.



Figure 1. Unilateral Bartholin's gland cyst (front and lateral view) in a cow