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## A rare case report on management of penile hair ring in fighter ram

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### Abstract

A fighting/ fighter ram aged one and half year old was presented to Veterinary College, Shivamogga with the history of dribbling of urine since five days and reduced feed intake. On clinical examination, dribbling of urine and hair ring encircling the anterior part of penis in front of glans penis was observed indicating a case of penile hair ring. Animal was restrained but complete exteriorization of penis could not be achieved due to mild adhesion and animal was not cooperative. Therefore, ram was taken to the female doe and the erected penis was grasped and penile hair ring was removed aseptically using scissor and preputial douching done with 1% potassium permanganate solution was done. Ram was treated with antibiotics Enrofloxacin long acting @ 7.5 mg/kg body weight, Meloxicam as anti-inflammatory @ 2.5 mg/kg body weight and chlophenaramine maleate (CPM) @ 0.5 mg/kg body weight. The recovery was uneventful. The present case report the successful management of penile hair ring condition in fighter ram.

**Keywords:** Dribbling of urine, penile hair ring, fighter ram

### Introduction

In domestic animals like Cow, Buffalo, Sheep and Goats Breeding soundness evaluation plays very vital role in the management of farms because it allows one to predict the reproductive potential of the particular animal. In male animals, examination of the genital tract includes a careful inspection of prepuce followed by penis, since disorders or abnormalities of these structures may hamper the coitus and they can become carriers of sexually transmitted diseases. Penile hair ring condition is a rare condition and in this condition there will be a circumferential accumulation of hair around the penis just proximal to the glans penis. Penile hair rings are common in young bulls and rams housed together due to the mounting behavior of young bulls where in there are chances of accumulation of body hair from the penmates on his penis [3]. Alternatively, there are chances of accumulation of hairs on penis from animals own sheath during masturbation. In either case, the accumulated hair may form an encircling hair ring near to the glans penis and this condition leads to penile hair ring [2]. The hair ring may sufficiently tighten the penis which may cause pressure necrosis of the urethra. Further, in severe cases avascular necrosis of penis may occur which leads to the damage to the dorsal penile nerves or there may be sloughing of the glans penis if the condition is undetected. Further, this condition may leads to urethral constriction as well as balanoposthitis and further adhesions.

Penile hair ring condition may resolve spontaneously or may become strangulate and damage the penis [1, 2, 3]. This condition may simultaneously occur with preputial and penile injuries, tumors or other male reproductive disorders [4, 5]. Some of the penile hair ring cases resolve spontaneously, however the treatment depends on the extent of injury on penis and prepuce [2]. In most of the cases of penile hair ring it is recommended to remove the hair ring and followed by topical application of an emollient antibacterial ointment. However, if there is a occurrence of urethral fistula with granulation the surgical repair may be necessary to avoid hemorrhage and contamination of semen during ejaculation [6].

### Case History and Clinical findings

A fighting ram aged one and half year old, weighing 70 kg was presented to Veterinary Clinical Complex, Veterinary College, Shivamogga with the history of dribbling of urine since five days and reduced feed intake. On clinical examination of ram temperature, heart rate, respiratory rate were in the normal range. Dribbling of urine was observed from the external urethral orifice. During natural erection of penis hair ring surrounding the anterior part of the penis was noticed indicating a case of penile hair ring condition. Animal was restrained but complete exteriorisation of penis and detailed examination of the penis and prepuce was not possible due to mild adhesion and pain near site of hair ring (Fig. 1) and also animal was not cooperative. Therefore, ram was taken to the female (doe) maintained at Livestock Farm Complex and the erected penis was grasped and hair ring encircling penis in front of the glans penis was removed aseptically using scissor (Fig. 2). Further, there was evidence of slight necrosis and congestion at the site of hair ring encircling the penis. The diameter of hair ring was around 1.4 cm and length of the hair ring was around 4 cm (Fig. 3). Later, preputial douching done with 1% potassium permanganate solution (Fig. 4) and ram was treated with antibiotics Enrofloxacin long acting @ 7.5 mg/kg body weight, Meloxicam as anti-inflammatory @ 2.5 mg/kg body weight and CPM @ 0.5 mg/kg body weight. The owner was advised to bring the animal if any abnormal discharge observed from preputial sheath or any signs of inflammation or swelling in prepuce area. Further, owner was advised to trim long hairs present in and around the preputial area. After removal of penile hair ring animal is passing urine normally and recovery was uneventful.



Fig 1: Introduction of female doe



Fig 2: Hair ring near to the Glans penis



Fig 3: Hair Ring after removal from glans penis



Fig 4: Preputial douching with 1% KMNO4 solution

### Conclusion

Penile hair ring in fighting or breeding rams is a rare condition. However, in this case the occurrence of penile hair ring might be due to presence of long hair around the preputial area. Some cases of penile hair ring may resolve spontaneously and in few cases it may lead to strangulation followed by damage to the penis [1, 2]. As such no report has been recorded about occurrence of penile hair ring in rams. However, it is seen in young bulls which have been used for breeding purpose as young bulls have higher mounts per service ratios than older bulls i.e. in a young bull, it is likely that penis has to move over the rump of the female (seeking the vulva) more frequently than in older bulls before copulation occurs. In severe cases, a urethral fistula with granulation tissue formation near the penile hair ring requires surgical repair [6]. However, the present case was brought at early stage; therefore, we could able to remove the hair ring using scissor without complications. Hence, the present clinical case reports the rare occurrence of penile hair ring condition and its successful management in fighter ram.

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