ABSTRACT
Uterine prolapse is a common obstetrical problem, which adversely affects productive and reproductive performance of cattle by affecting postpartum return to oestrus, conception rate and calving interval and the incidence of uterine prolapse as 42.9% among various obstetrical problems in cattle. In this study total uterine prolapse, replacement of everted organ of uterus was done manually following proper precautionary measures. In this case of uterine prolapse was completely recovered.

KEYWORDS: Kangayam Cattle, Total uterine prolapse.

INTRODUCTION
Uterine proplapse is a non-hereditary complication occurring immediately after parturition and occasionally up to several hours afterwards. Proplapse of the uterus is a common complication of the third stage of labour in the cow (Joseph et al., 2001). In ruminants the prolapse is generally a complete inversion of the gravid cornua (Arthur et al., 1996). Uterine Prolapse is one of the most potentially dangerous complications associated with calving. The prolapsed uterus is usually associated with hypocalcaemia or milk fever. The etiology of uterine prolapse is unknown. But many factors have been associated (Jackson, 2004). These include conditions such as poor uterine tone, increased straining, the weight of retained fetal membranes, conditions that increased intra abdominal pressure including tympany and excessive estrogen content in the feed. If prompt treatment is instituted, a post operative fertility rate of 40-60% has been recorded (Tyagi and Singh, 2002). Delayed cases may develop fatal septicaemia. Success of treatment depends on the type of case, the duration of the case, the degree of damage and contamination. The aim of this study was to manage and correct the uterine prolapsed, save Kangayam cattle from severe consequences.

Case History and Observation
A sixth parity Kangayam cow was presented with a history of a normal parturition at farmer field, Vilakethi Village, Erode District. A normal female calf was born and the total uterine mass was prolapsed after the fetal membrane sheds normally. The animal was in a lying down position. A thorough physical examination was carried out and the vital parameters were: Temperature 39.9°C, Heart rate 126 beats/min. Respiratory rate 79 cycles/min and pulse rate 126 beats/min. The oocul mucous membrane was pinkish and the prolapsed uterus mass was swollen, necrotic and stained with dung materials and debris.

Treatment and Discussion
Epidural anesthesia was achieved by infiltration of 10 ml of lignocaine solution into the first sacrococcygeal vertebrae to prevent staining during replacement of the prolapsed organ. After allowing 10 min for the anesthetics to take effect, sensitivity around the perineal region was assessed by pricking with a needle. The debris and dung materials were gently removed and the prolapsed uterus was washed with warm dilute chlorhexidine solution (Hosie, 1993). The necrotic area was debrided. The animal was then placed on sternal recumbency and the two hind limbs were pulled out behind her. Then using both hands with moderate force the prolapsed uterus was gently pushed in through the vagina. The body was first pushed in followed by the horns. Then the purse string suture with sterile cotton thread was placed in the vulva as a retention technique to hold the uterus in place. The animal was treated with antibiotic inj. Ceftriofur@2mg/Kg b.wt, inj.Oxytocin 15 IU i/m, anti-inflammatory analgesic (inj. Meloxicam) 15ml i/m, antihistaminic (inj. Chlorpheniramine maleate) 10ml i/m and i/v fluid therapy inj. DNS 1800 ml/day and inj. Calciumborogluconate 400ml/ day. The same treatment was followed for three days except inj. Calciumborogluconate and inj. Oxytocin. The vaginal suture was removed after one week. The animal became healthy with normal milk production and fertility. Prolapse of the uterus normally occur during the third stage of labour at a time when the fetus has been expelled and the fetal cotyledons has separated from the maternal caruncles (Noakes et al., 2001). The goal in the treatment of uterine prolapse is replacement of the organ followed by a method to keep it in the retained position. A full clinical examination of animals with uterine prolapse must be undertaken as signs of toxemia like in appetite, an increased respiratory rate, raised pulse and congested mucus membranes may be consisted with metritis. Vascular compromise, trauma and faecal contamination
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may also increase toxin intake across the uterine mucosa. However, careful removal of these materials after soaking with warm dilute antiseptic solution is usually successful causing only minor capillary bleeding. A caudal epidural anesthesia is essential before replacement of a uterine prolapse as it decreases straining and desensitizes the perineum. The uterine prolapse can be replaced with the animal in standing or recumbent position. If the uterus is completely and fully replaced the way to the tips of the uterine horns, the prolapse is unlikely to occur (Hanie, 2006). Simple manual methods of overcoming uterine prolapsed difficulties have been introduced in this study. The tension of a rope around the posterior abdomen, raising the animal’s hind legs on board or on a truss of straw. This is also suggested by different author (Arthur et al., 1999). Before replacement of uterus epidural anesthesia was performed. The replacement of uterus was performed little by little, starting the vulval lips upper and lower portion. The prolapsed uterus was pushed into vagina by manual pressure and takes care of vulval lips. Once the uterus is in its normal position, oxytocin 10 i.u intramuscularly should be administered to increase uterine tone. It has also been reported that most animals with uterine prolapse are hypocalcaemic (Fubini and Duchamae, 2006). Where signs of hypocalcaemia are noticed such animals should therefore, be given calcium borogluconate. An injectable broad spectrum antibiotics once administered for three to five days after replacement of the prolapsed will prevent secondary bacterial infection (Borobia-Belsue, 2006; Plunkett, 2000). Animals with uterine prolapse that were properly managed can conceive again without problems. Complications develop when lacerations, necrosis and infections are present or when treatment is delayed. Shock, hemorrhage and thromboembolism are potential sequelae of a prolonged prolapse. The high vital parameters witnessed in this case when the animal was first brought could be as a result of metritis caused by secondary bacterial infection especially as the animal was brought for treatment after three days of occurrence of the prolapse. Treatment with broad spectrum antibiotics (Ceftiofur sodium 2mg/kg) was responsible for the lowering of the vital parameters to the normal values after three days of treatment. Ceftiofur sodium was given to prevent the secondary bacterial infection. In recumbent animal, the immediate need is to cover the prolapsed mass with clean, wet cloth to keep the mass moist and free from further animal. In standing animal, mass wrapped in a cloth and hold the vulva at high level. Handling of the prolapsed organ invariably leads to about of tenasmus and therefore light epidural anesthesia is mandatory (Tyagi and Singh, 2002). Plenderleith (1986) described a method which is now in common usage amongst practitioners. The cow is placed in sterna recumbency with both hind legs pulled out. The usually the edematous placentaens allow easy separation of cotyledons from caruncles (Potter, 2008). Prognosis of prolapsed uterus generally favorable for uncomplicated cases where there has been no serious damage to the uterus. In one study a two week survival rate of 72.4% (Gardner et al., 1990) was found, with other studies findings survival rates of 73.5% (Jubb et al., 1990) and 80% (Murphy and Dobson, 2002).

REFERENCES


