DYSTOCIA DUE TO A DICEPHALUS MONSTER FETUS IN A BUFFALO

Pravesh Kumar*, Amit Sharma, Madhumeet Singh, Pankaj Sood and Purabi Barman

ABSTRACT

A successful delivery of a dicephalus monster fetus through Caesarean section is recorded.

Keywords: dicephalus monster, buffalo, congenital abnormalities

INTRODUCTION

A monster is a malformed fetus. Fetal anomalies and monstrosities are common cause of dystocia in bovines (Shukla et al., 2007) and are disturbances of development that involve the sexual organs and cause great distortion of the individual (Vegad, 2007). They are usually associated with either with infectious diseases or congenital defects (Arthur et al., 2001) and may or may not interfere with birth (Sharma et al., 2010; Gupta et al., 2011). Abnormal duplication of germinal area in fetus will give rise to congenital fetal abnormalities with partial duplication of body structure (Robert, 2004). Varying degree of fusion occurs; but anterior duplications are more seen in ruminants and swine (Arthur et al., 2001). It is important to know various types of monsters which cannot be removed without Caesarean section most of the time (Gupta et al., 2011; Sharma, 2006).

Case History and Clinical Observation

A four-year-old indigenous, primiparous buffalo with the history of natural service 308 days before was presented in the Veterinary Hospital Dandaru. The animal was presented with the complaint that in spite of continuous straining for last 6 h after the expulsion of first water bag, there was no progression to the stage of parturition. Per vaginal examination revealed an abnormal fetus with two heads joined at neck in anterior longitudinal presentation, dorso-pubic position with both the fore limbs retained against dorsal border of the vagina. As the fetus was a monster and was in dorso-pubic position, Caesarean section was done.

Treatment and Discussion

The buffalo was pre-mediated with anti-shock therapy (Inj. dexamethasone 40 mg, i.m total dose), hemostat (Inj. Revici 20 ml, i.m) and local infiltration anesthesia was achieved by using lignocaine HCl. The left paramedian laparohysterotomy was performed after restraining the animal in right lateral recumbancy. The uterus, peritoneum, muscle and skin were sutured in the routine manner. The buffalo was treated with inj. Strepto-Penicillin 2.5 gm bid i.m, inj. meloxicam 15 ml i.m for 5 days. The fluid therapy was done with inj. Ringer’s Lactate (4 litres), inj. normal saline (2 litres) by i.v route along with supportive

Department of Veterinary Gynaecology and Obstetrics, DGCN, College of Veterinary and Animal Sciences, Palampur, Himachal Pradesh, India, *E-mail: pk9919@gmail.com
therapy for 5 days. Antiseptic dressing was done on alternate days using povidone Iodine. The sutures were removed after 10 days of the caesarean section.

The fetus had two fully developed heads on single neck (Figure 1). One of the head was aligned with the cervical vertebrae. Both the heads had separate ears but the pinnae of the medial ears were fused at the base. The neck, thorax, abdomen and limbs were grossly normal. These observations were similar to the earlier findings (Fisher et al., 1986). Dicephalus monsters have been reported in goats (Pandit et al., 1994), buffaloes (Chauhan and Verma, 1995; Raju et al., 2000; Bugalia et al., 2001; Srivastva et al., 2008) and cows (Chandrahasan et al., 2003; Patil et al., 2004; John Abrahan et al., 2007). Embryonic duplications are malformation due to abnormal duplication of the germinal area giving rise to fetuses whose body structures are partially duplicated. The embryonic disk starts to differentiate on the 13th day. If the split occurs after day 13, then the twins will share body parts in addition to sharing their chorion and amnion (Finberg, 1994). Conjoined twins may be caused by any number of factors, being influenced by genetic and environmental conditions. It is presently thought that these factors are responsible for the failure of twins to separate after the 13th day after fertilization (Srivastva et al., 2008). Jones and Hunt (1983) stated that many congenital anomalies are essentially unknown; however, the important known causes are prenatal infection with a virus, poisons ingested by mother, vitamin deficiency (A and folic acid), genetic factors and/or combination of these factors.

REFERENCES


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