

SCHISTOSOMUS REFLEXUS WITH PERSOMUS ACAUDATUS IN A SHE BUFFALO

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ABSTRACT

A case of dystocia due to *Schistosomus reflexus* with *Persomus acaudatus* in a Murrah she buffalo is reported.

Key words: Buffalo, *Schistosomus reflexus*, *Persomus acaudatus*

INTRODUCTION

Schistosomus reflexus is characterized by extensive deformities involving actual angulation of vertebral column, herniation of abdominal organs and marked by skeletal defects leading to dystocia. It is more reported in cattle and rare in sheep and goat (Roberts, 1971). The present case reports a rare occurrence of *Schistosomus reflexus* and *Persomus acaudatus* in a she buffalo.

CASE HISTORY AND OBSERVATIONS

A primiparous full term pregnant murrah buffalo was referred to clinics at State Institute of Animal Health, Tanuku, Andhra Pradesh with a complaint of dystocia and symptoms of labor pains since 8 hours. Pervaginal examination revealed complete dilatation of cervix and presence of four limbs in the pelvic cavity with its head in the normal posture.

Fetus was found to be dead as there observed no reflexus from the fetal side and the cavity found to be dried of fluids. Hence, caesarean section was performed to relieve the fetus.

TREATMENT AND DISCUSSION

The animal was sedated with Trifluorpromazine Hcl @ 0.2mg/kg bodyweight and local infiltration with lignocaine hydrochloride. Laparohysterotomy was performed at left paramedian site as per standard

procedure and dead fetus was removed. Animal was treated with antibiotics for five days and sufficient parenteral fluids.

The delivered dead male calf was *Schistosomus reflexus* with all visceral organs and was also characterized by marked ventral curvature of spine. The lumbar vertebrae were under developed the heart was enlarged (cardiomegaly) The lungs and diaphragm were under developed. Ankylosis of limbs was noticed. Anomalies of the appendicular skeleton include normal head, four fore limbs (tetrapodus) in which one is extended forward and other is extended backward and for hindlimbs (tetrapus) in which one of the hind limbs is ill developed. Anomalies of axial skeleton showed lack of coccygial vertebrae and deformed sacral vertebrae with sunken perineal region (*Persomus acaudatus*). The type of calf is designated as Monocephalus Tetrapus Tetrabrachius with *Schistosomus reflexus* (Fig.).

Many of developmental abnormalities could not be interpreted in terms of induced abnormalities (Hamilton *et al.*, 1962). This condition might be due to genetical predisposition. During development, organs developed from different organ primordial and its splitting leads to duplication (Shumway, 2001). Similar case of monocephalus tetrapus dibrachius with *Schistosomus reflexus* in crossbred cow was reported by Rajani and Raghavan, (2010).

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REFERENCES

Hamilton, W.J., Boyd, J.D. and Mossman, H. W. (1962). Human embryology, 3rd Edn W. heifer and sons Ltd., Cambridge, U.K. pp 191 - 316

Rajani, C.V. and Raghavan, K.S. (2010). Dystocia due to conjoined twins with schistosomus reflexus in cattle. *Tamilnadu. J. Vet. Anim. Sci.* 6(1): pp 52-53.

Roberts, S.J. (1971). *Veterinary Obstetrics and Genital Diseases* 2nd Edn. CBS Publishers and Distributers, Delhi. Pp 70-73.

Shumway, W. (2001). *Introduction to vertebrate Embryology.* 1st Indian Edn Biotech Books, Delhi. Pp 256-257.



Fig. : *Schistosomus and Persomus Acaudatus* Calf

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