CASE REPORTS

A Case Report of Schistomomus Reflex in a Maradi Goat

Magaji, A.A. (M.P.H), Umar, M.A. (M.V.Sc), Obudu, C.E. (M.V.Sc.) Agaie, B.M. (M.Sc.) & Sonfada, M.L. (M.P.H.)

> Faculty of Veterinary Medicine. Usmanu Danfodiyo University, P.M.B. 2346, Sokoto, Nigeria.

Corresponding Author: C.E. Obudu

Department of Physiology & Pharmacology

Faculty of Veterinary Medicine Usmanu Danfodiyo University,

Sokoto, Nigeria.

Abstract

This paper presents a case of schistosomus reflexus in a Maradi goat. The only nonster, a female in a set of triplets, was born alive while the two other kids were normal. There was no fusion of the linea alba, resulting in visceral eventration. Most of he viscera were of normal size, colour and consistency, except for the liver that was lightly enlarged. There was also ventral angulation and lateral deviation of the spine but o ankylosis. The monster also had anal atresia.

Keywords: Schistosomus reflexus, normal delivery, triplet, Maradi goat.

ntroduction

Congenital teratologies have been eported to be due to autosomal ecessive genes and they have been classified as either lethal or sublethal, lepending on their manifestation and effect on the life of the foetus or neonate Roberts, 1971). Schistosomus reflexus has been documented as one of the most common foetal monsters in domestic & Mayer, ınimals (Dennis 1965, 3edford, 1976; Gonnermann, 1978: rocter, 1982; Dobrescu, 1985; Berepubor and Ezeasor, 1978; Garba and Chromosomal Mohammed, 1993). nvolvement and exposure to teratogenic igents have been suggested as likely schistosomus causes of reflexus

(Berepubor and Ezeasor, 1987; Fatimah et. al., 1981; Nicolson et. al., 1985). Previous reports of the condition had been in single or multiple pregnancies mostly associated with dystocia (Garba et. al., 1994). This paper discusses a case of schistosmus reflexus in a triplet pregnancy delivered alive per vaginum at term.

Case Report

The attention of the authors was drawn to a 3-year old Red Sokoto (Maradi) goat in labour. On arrival at the clinic, the dam had already delivered a monster and two other apparently normal male and female kids. History indicated that this was her third kidding:

she had a single kid and a set of twins from her first and second pregnancies respectively. She had no previous history of dystocia or monstrosities.

A closer observation of the monster revealed that it respired as evidenced by inward and outward movement of the thoracic cavity for about thirty minutes before it eventually ceased. The monster also made several attempts to bleat but these were inaudible. There was ventral angulation and lateral deviation of the spine resulting in approximation of the head and the pelvic region. The entire thoracic and abdominal contents were exposed (Fig. 1) as the linea alba did not form. The liver was slightly enlarged and the rumen contained some fluid. The monster was female and had anal atresia but no ankylosis. Based on these findings the monster was diagnosed to be a case of schistosomus reflexus.

Discussion and Conclusion

This is the first report of a schistosomus reflexus born alive without any obstetrical complications in the dam in this area. Moreover, there was no ankylosis, contrary to earlier findings (Amin 1995) who reported ankylosis and dystocia in schistosomus. Furthermore, although toxic plants or drugs, mycotic infections, irradiation and trace element imbalance have been incriminated as possible aetiologic agents (Garba and Mohammed 1993), the role of these factors is doubtful in this case, as all foetuses would have been similarly affected.

In conclusion, there seems to be an increase in the number of reported cases of schistosomus reflexus, particularly in

north-western Nigeria. We therefore call for more detailed studies into the incidence and aetiology of the condition as well as other teratological conditions with a view to evaluating their impact on the Nigerian livestock industry.

Acknowledgement

We would like to thank Miss Victoria Odinkenmere for typing the manuscript.

References

- Amin, J.D. (1995). A Schistosomus reflexus-like condition in a still-born lamb. Trop. Vet. Vol. 13 (1 & 2) Pp. 25-27.
- Bedford, P.G.C. (1967). Schistosomus reflexus in a goat. A case report. Vet. Rec. 80: 326.
- Berepubor, A. and Ezeasor, D. (1987).
 Schistosomus reflexus in Friesian
 Calves: Morphologic and
 Cytogenetic Characteristics. Zariya
 Vet. Vol. 2 No. 2 Pp. 92-96.
- Dennis, S.M. and Meyer, E.P. (1965). Schistosomus reflexus in a sheep. Vet. Rec. 77: 1386-1388.
- Dobrescu, M. (1985). A rare case of schistosomus reflexus in a donkey. Veterinary Medical Review 45 (2): 179-180.
- Fatimah, I.; Bongso, T.A. and Chooi, K.F. (1981). Schistosomus reflexus in a Bovine Calf: A case report. Kajitan Veterinarian 13: 40-42.

- Garba, H.S and Mohammed, S.M. (1993). Schistosomus reflexus in a one humped camel (*Camelus dromedarius*): A case report. Trop. Vet. Vol. II, 137.
- Garba, H. S.; Adamu, Y.A. and Elsa, A.T. (1994). Schistosomus reflexus in a Red Sokoto goat from a triplet pregnancy. Trop. Vet. Vol. 12, No. 128-129.
- Gonnermann, H. (1978). Schistosomus reflexus in a calf fetus and piglet on the same farm. Ditsch. Tierarztl. Wschr. 85: 445.
- Nicolson, T.B.; Nettletion, P.I.; Spence, J.A. and Calder, K.H. (1985). High Incidence of abortions and congenital deformations of unknown aetiology in a beef herd. Vet. Rec. 116: 281-284.
- Procter, P.T. (1982). Foetal Monstrosity in thorough bred mare resembling Schistosomus reflexus. Equine Vet. J. 14 (4) 340.
- Roberts, S. J. (1971). Veterinary Obstetrics and Genital Diseases, 2nd Ed. Ann. Arbor, Michigan. Pp. 49-80.



Fig. 2 Schistosomus reflexus in a Maradi kid showing some of the viscera.