



ISSN (E): 2277-7695
ISSN (P): 2349-8242
NAAS Rating: 5.23
TPI 2023; 12(2): 1708-1709
© 2023 TPI
www.thepharmajournal.com
Received: 07-12-2022
Accepted: 16-01-2023

Surita Majumder
Ph.D., Research Scholar,
Department of Animal Breeding
& Genetics, College of Veterinary
Sciences and Animal Husbandry,
OUAT, Bhubaneswar, Odisha,
India

Chandana Sree Chinnareddyvari
PG Research Scholar,
Department of Animal Breeding
& Genetics, College of Veterinary
Sciences and Animal Husbandry,
OUAT, Bhubaneswar, Odisha,
India

UVS Narayana Prasad
PG Research Scholar,
Department of Animal
Reproduction, Gynaecology and
Obstetrics, College of Veterinary
Sciences and Animal Husbandry,
OUAT, Bhubaneswar, Odisha,
India

Dhanu Kumar Murasing
Ph.D., Research Scholar,
Department of Veterinary
Gynaecology & Obstetrics,
College of Veterinary and Animal
Sciences, GBPUAT, Pantnagar,
Uttarakhand, India

Susanta Kumar Dash
Professor and Head, Department
of Animal Breeding & Genetics,
College of Veterinary Sciences
and Animal Husbandry, OUAT,
Bhubaneswar, Odisha, India

Corresponding Author:
Surita Majumder
Ph.D., Research Scholar,
Department of Animal Breeding
& Genetics, College of Veterinary
Sciences and Animal Husbandry,
OUAT, Bhubaneswar, Odisha,
India

Mummified Fetus in a black Bengal goat: A case study

Surita Majumder, Chandana Sree Chinnareddyvari, UVS Narayana Prasad, Dhanu Kumar Murasing and Susanta Kumar Dash

Abstract

Parturition is triggered by the Fetus. A black Bengal goat was presented at TVCC, Tripura with a history of hanging placenta since last night. The animal is Parturated one kid last night. The present case study highlights the relieving a mummified Fetus by manual method with a temperature history of 103° F, enlarged udder, vaginal discharge present and retention of placenta.

Keywords: black Bengal goat, mummified Fetus, enlarged udder

Introduction

Fetal death in domestic animals occurring in the middle or last third of gestation that does not result in involution of the corpus luteum & abortion of the fetus followed by mummification. Causes are some genetic factors, prolonged gestation, infectious cause of death of fetus like toxoplasmosis, chlamydo-phila, leptospirosis etc. It's possible that sex-related genes contributing to foetal mummification. It is mainly 2 types, hematic and papyraceous. A viscous adhesive material covers the mummified fetus. Mummification with dry, stiff fetoplacental unit with no exudates is called as papyraceous mummification.

Some genetic factors of mummification in other livestock - However, the recessive genes were present in the heterozygous condition, indicating that they were not the direct cause of the foetal death or mummification. Autosomal recessive genes have previously been linked to bovine foetal mummification. Deaton mentioned the involvement of autosomal recessive deadly genes in the mummification of cattle. Given that the abnormality was seen in some cow families for several generations and that the majority of the mummified fetuses were male, they hypothesised that the fatal gene may be sex-linked. 32 mummified fetuses were used to get the conclusion that the disorder is not caused by a single recessive deadly gene and that environmental factors are also at play. The fact that 75% of the mummified fetuses in that study were male, highlights the likelihood that some sex-related genes may be implicated in foetal mummification. We can indicate that more research is necessary to fully comprehend the function of sex-linked genes in goat foetal mummification.

Case History

A black Bengal goat of 4 years of age with 6 months pregnant was presented at TVCC, Tripura with a history of hanging placenta since last night at 9pm (Fig 01). The animal is parturated one kid last night. The animal has given birth of minimum 2 kids per calving usually. Vaccination was done 3-4 months ago. Mucous membrane of perineal region is pink (Fig 02). On gynaecological and physical examination, it was found that both vulval lips adhere tightly. Through the vulval lips, only 2-3 fingers were able to pass because of tight adherence or narrowing of both vulval lips. The feed and water intake were also compromised from 1 day.

Treatment

Initially, animal was restrained properly. The adequate lubrication of the Per-vaginal examination revealed a dead fetus with foul smell of vaginal discharge. After washing vaginal area with normal hot water, manual removal of placenta was done. 2 bolus of Furex was given intravaginally after complete removal of placenta so that remaining placental parts and other cellular debris can come out. After that Injection of Conmox with @2ml I/M for 5 days, Involon liquid @100ml orally stat followed by @50ml for 5 days, Min. Mix @20gm once daily orally for 15 days, Injection Melonex @1ml I/M for 3 days. Continuously 5 days follow up treatment was done by conmox and melonex.

The doe recovered fully after few days of continuous treatment.

Discussion and Conclusion

When normal parturition or abortion mechanisms fail, the fetus dies and is kept in the uterus, a condition known as foetal mummification (Arthur *et al.*, 1989) [3]. According to reports, goats rarely exhibit foetal mummification, but it seems to be more common during twin pregnancies (Tutt, 1991) [12]. In this present case study, one mummified fetus was delivered. Ogbu *et al.* (2011) [11] also reported a case of dystocia due to dead fully developed fetus and smaller mummified fetus. A goat with a history of having one mummified fetus may have another one at any gestation period, hence the prognosis should be always guarded. This case was successfully managed per-vaginally and without any complication doe recovered.

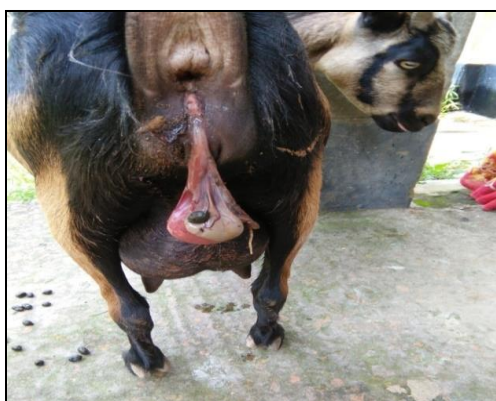


Fig 1: Hanging Placenta



Fig 2: Mucous membrane



Fig 3: Manual removal of placenta.



Fig 4: Mummified Fetus

References

1. Alagar S, Prakash S, Selvaraju M, Ravikumar K, Manokaran S. Papyraceous mummification leading to dystocia of a normal fetus in a mecheri ewe. *Indian Journal of Animal Reproduction*. 2016;38:62-63.
2. Anil M, Rajashri Raju M, Solmon G, Raju KG, Reddy CK. Fetal mummification in non-descript doe" a case report. *International Journal of Science, Environment & Technology*. 2017;6:2335-2338.
3. Arthur GH, Noakes DE, Pearson H. *Veterinary reproduction and obstetrics*. (6th Edn.) London, Bailliere Tindall, 1989, 114.
4. Awasthi Tiwari MK. Case report: Successful treatment of bovine fetal mummification with iliren. *The Blue Cross Book*. 2002;19:28-29.
5. Deaton OW, Olds D, Seath DM. A study of some possible genetic causes of mummified fetuses in dairy cattle. *Kentucky Agricultural Experiment Station, Lexington A_x-I*, 1958.
6. Dutt R, Dalal J, Singh G, Gahalot SC. Management of fetal mummification/maceration through left flank cesarean section in cows – study of four cases. *Advances in Animal and Veterinary Sciences*. 2018;6:12-16.
7. Edmondson MA, Roberts JF, Baird AN, Bychawski S, Pugh DG. *Theriogenology of sheep and goats*. In: Pugh DG, Baird AN, editors. *Sheep and Goat Medicine*, 2nd ed. Maryland Heights (MO): Elsevier Saunders, 2012, Pp. 150-230.
8. Ghanem ME, Suzuki T, Akita M, Nishibori M. *Neospora caninum* and complex vertebral malformation as possible causes of bovine fetal mummification. *Can Vet J*. 2009;50:389-392.
9. Irons PC. Hysterotomy by a colpotomy approach for treatment of fetal mummification in a cow. *Journal of South African Veterinary Association*. 1999;70:127-129.
10. Long S. Abnormal development of the conceptus and its consequences. In: Noakes DE, Parkinson TJ, England GCW (Eds.) *Veterinary Reproduction and Obstetrics*, 9th Edition authored by Published by Harcourt (India) private limited, 2009.
11. Ogbu EO, Omegegbe JO, Ukaha R, Njoku UN, Nnakwe K, Nwoha RI. Dystocia and foetal mummification in a West African dwarf doe: a case report. *Nigerian Veterinary Journal*. 2011;32(4):357-361.
12. Tutt CLC. Post-partum mummification of a co-twin foetus in a Cameroon Dwarf doe. *Veterinary Record*, 1991;40:229-231.