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A Three-Legged Kid Was Born In Ethiopia-Case Report

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ABSTRACT

We received a malformed goat kid. The kid was part of a twin gestation, from which two male kids born with one of the twins with morphological abnormalities and underwent regular presented numbers of kid legs. A goat give a twin kid which two of them were male kids with one was three-legged and the second one was normal with four –legged was born in Ethiopia at Gambella University small-scale goat farm at June 2015, which is a rare congenital condition characterized by abnormal development of the body due to a genetic abnormality that occurs in rare cases, only one or more than thousands kids born each year in the world come out with that kind of abnormality/three-legged. The location of the case: In Gambella University small-scale goat farm.

Keywords: kids, twin, abnormality, Ethiopia

INTRODUCTION

Abnormalities of structures that present at birth are obviously congenital defects; some anomalies may be acquired during fetal development while others may be inherited. Congenital defects are structural or functional abnormalities and can effect on isolated portion of a body system, entire system or parts of several systems and may cause obstetrical problems. It has been demonstrated that the majority of human and animal malformations are due to multifactorial etiology. Congenital defects are induced by genetic or environmental factors (infectious diseases, viruses, drugs, poisonings, plants, mineral salts and vitamin (A, D, E) deficiency), hormonal factors and physical reasons or by their interactions. There are few reported cases of three-legged kids in goat; many of the three-legged creatures are born dead. However, the three-legged kid could live if three of its legs are fully attached to its body, easily assess for food and water, as well as walking/movement here and there, can easily flow with the flock. If the kid's three legs are tied in normally structured, it could live a very long time "But typically, with something like that, there's something wrong. "because this kid was born with four-legged kid as twin which has easily assess to suckling the does /mother goat; the three-legged kids is unable to compute with the normal one to suckle, so the three-legged kid right now less weighted than of the four/normal-legged kid.



There are often three-legged, goats, sheep camels, and, cows, but very few are born alive. "Most that are born alive only live two or three days." Malformation of the legs, head, face and other body system of the livestock is a common phenomenon among sheep abnormalities (Dennis and Leipold, 1979). Most environmentally caused congenital defects will occur during a short period of the kidding season, from does/goat that were managed as a group. After proper diagnosis, a change in management is necessary to correct these conditions for livestock (Schalles, R. R. ,Leipold, H.W. and McCraw, R. L. , BCH-1900.)

Three-legged is described as an abnormality of incomplete normal legs of new born kid resulting from twinning in goat. The reported incidence of this study is three-legged of one kid in twin kids of one born with normal legs/four legs. The aim of the present study was to describe some gross anatomical abnormalities in a three-legged kid with a normal born twin kid, which both of them are male.

CASE HISTORY

Akid in Gambella University small scale goat farm located 5 km of Gambella regional state, which is near the capital city was born with three-legged with all others of normal body structures and systems , attached to one body, kid was born with two-hind legs and one forehand distorted.The red-spot haired kid has to be suckled by itself, because its mother not refuses to feed it. The kid was born in June 2015 and living till today. It belongs to the small flock (15 goats) which manage by flock keeper of the goat farm with his family which was one of many small flock in that farm, that case was the first one in all flock which managed there as farm and flock keeper said and additionally there was no secondary data shows about the abnormality of the flock family history .generally there was no history of congenital abnormalities in the flock.

Parturition: Ordinarily does not suffer from fetal cause of dystocia (fetal monster), even though the kids were twin they were not over size, orientation posterior presentation in a normal way till to delivery period finished.

RESULTS AND DISCUSSION

Twinning offspring's has been normally born in all livestock. However from the twin's one /single abnormality is very rare in the world and particularly in Ethiopia. Additionally abnormality of single offspring has been reported in most domestic animal species. A farmer from eastern China has found himself the talk of the country after one of his goats gave birth to a kid with six legs. The 20-day-old 'spider goat' - as it has been (inaccurately) nicknamed by Chinese web users - was born with four forelegs and two hind legs. Similarly, the kid was born in case of this study with three-legged with two-hind legs and one foreleg. However, the case that makes special report is that this single abnormal kid was born with the normal kid as twin.



Fig.1. A twin kid's one with three-legged and the other with four-legged was born in Ethiopia, Gambella University small scale goat farm.

Flock keeper says the kid suckle freely and moves with other in the farm. But it is difficult to draw the line between the two twins what is considered "one animal with two different offspring at the same pregnancy stage" or "two twin animals that have one a normal body structure and the other have abnormal structure/missed part a body".



Fig.2.The four-legged one is more conformed than the three-legged kid even though they are twin



Fig.3. the three-legged kid when separately move in the house of the goats.



The abnormality/congenital occurs extremely rarely in horses, occasionally in dogs and cats (Fisher et al., 1986; Saperstein, 1981), and more commonly in cattle than in the other ruminants (Leipold et al., 1972; Pal and Verma, 1981; Ramadan, 1996).The goat is not refusing to allow her strange kid to suckle, so the three-legs are giving equal as four-legged kids services for suckling even if its movement is not as fast as the normal kid. However, the kid is healthy and growing quickly and has become one of the most playful goats on the farm. 'He can suckle a lot,' said a flock keeper. The kid's three legs were of similar length initially.

REFERENCES

1. Bahador Shojaei, Derakhshanfar ,A. Oloumi, M.M and Hashemnia,S.2006. Diprosopus, spinabifi da and kyphoscoliosis in a lamb - a case report VeterinarskiArhiv 76 (5), 461-469, 2006
2. Dennis SM and Leipold HW (1979).Ovine congenital defects.Vet. Bull.49, 233-239.
3. Fisher KRS, Partlow GD and Walker AF (1986).Clinical and Anatomical observations of a two-headed lamb. Anat. Rec. 214, 432-440.
4. Leipold H W and Dennis SM (1972).Dicephalus in two calves. Am. J. Vet. Res. 33, 421-423.
5. Pal M and Verma JD (1981). A unique case of monstrosity in a goat.Indian Vet. J. 58, 244.
6. Ramadan RO (1996). A dicephalus goat with other defects. J. Vet. Med.43, 337-343.
7. Saperstein G (1981). Diprosopus in a Herford calf. Vet. Rec. 108, 234-235.
8. Schalles RR, Leipold HW and McCraw RL, BCH-1900 .Congenital Defects in Cattle. In: Beef Cattle Handbook, 1914.

