Management of Pseudopregnancy in goat in field condition – A case report

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Abstract

Pseudopregnancy is one among the causes of infertility in goats also called as hydrometra or mucometra. A three year old healthy Jamunapari crossbred doe was kidded once. Goat was bred eight months back and no parturition signs were observed. All clinical signs were normal. In ventral abdominal palpation no palpable fetal parts were felt and bilateral abdominal distension noticed. The present case study was diagnosed pseudopregnancy based on history, clinical signs and treated successfully with synthetic prostaglandin.

Keywords: Pseudopregnancy, goat, infertility

Introduction

Goat farming is the one of the important livelihoods of livestock farmers in Nagapattinam districts of Tamil Nadu. Goats are seasonal breeders and they are ready for breeding only in winter months when the day time shorter. Goats are usually become anestrous during summer period. Reproduction is the backbone of animal production. Hence, increasing the reproductive efficiency of goat is plays pivotal role. Pseudopregnancy is one of the important uterine pathology of goats that affecting infertility. It is a condition of mated and non-mated goats in breeding and non-breading season characterized by the accumulation of aseptic fluid in the uterine lumen. It causes anoestrum and produces temporary infertility in goats. It is also called as hydrometra or mucometra. Pseudopregnancy mostly affects older goats compared to younger goats. Therefore, present article describes about the diagnosis of pseudopregnancy and its successful management.

History

The case study was conducted at the village of Nagapattinam districts of Tamil Nadu. Animal was presented from unorganized farm. It was three year old Jamunapari cross bred doe and kidded once. The doe was bred eight months before and not showing any parturition signs.

Clinical examination

The animal was active and alert. All the vital signs were normal. Mucous membrane was pale in appearance. Urine and pellets voided normally. Abdomen was distended bilaterally and appeared as pregnant animal. Fetal parts were not palpated during ventral abdominal palpation and vaginal discharge was absent. But teats were engorged.

Treatment

The animal was treated with a total dose of 125µg synthetic prostaglandin PGF2α (Cloprostenol® injection Vet, 250µg/ml, Intas pharmaceuticals) intramuscularly. The dose was repeated once, after twelve days. After the treatment of animal was recovered and began to show normal oestrous symptoms and bred with buck.

Discussion

Pseudopregnancy is an anestrous condition in which fluid accumulates inside the uterus with persistence of corpus luteum (CL) and absence of fetus and placentomes. It is associated with high plasma progesterone level secreted by persistent CL, cessation of cyclic activity and distended abdomen. The primary clinical sign is accumulation of fluid within the uterus (Hydrometra) due to higher prolactin concentration is in pseudopregnant does.

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Pseudopregnancy in goats most often affects older, parous does especially between 3-6 years old [6]. It could be diagnosed by ultrasonography [3, 9]. When it not diagnosed, pseudopregnancy can persist for up to 120-150 days before it could resolve spontaneously [10]. Treatment of the pseudopregnancy involves luteal regression by administering a single or double dose of luteolytic drug prostaglandins or its synthetic analogs [6, 11, 12].

In field condition performing ultrasonographic is difficult. In the present case was diagnosed as pseudopregnancy based on the history and the signs of animal that showed bilateral distention and no palpable fetal parts. Animal was successfully treated with synthetic prostaglandins. After its recovery showed oestrous signs and mated with buck.

Conclusion
Pseudopregnancy is one of the important reproductive disorder of goats often mislead as pregnancy. Hence proper diagnosis and early treatment will avoid economic loss to the farmer.

References