

## Current Medical and Natural Synchronization Methods in Small Ruminants

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**Abstract :** Ewes and goats are seasonally polyestrous animals. Their reproductive activities are associated with the reduction or extending of daylight. Melatonin releasing from pineal gland regulates the sexual activities depending on daylight. In recent years, number of ewes decreased in our country. This situation dispatched to developing of some methods to increase productivity. Small ruminants can be synchronized with the natural and medical methods. known methods from natural light set with ram and goat participation. The most important natural methods of male influence, daylight is regulated and feed. On the other hand, progestagens, PGF2 $\alpha$ , melatonin, and gonadotropins are commonly used for the purpose of estrus synchranization. But it is not effective PGF2 $\alpha$  anestrous season The short-term and long-term progesterone treatment was effective to synchronize estrus in small ruminats during both breeding and anestrous seasons. Alternative choices of progesterone/progestagen have been controlled internal drug release (CIDR) devices, supplying natural progesterone, norgestomet implants, and orally active melengestrol acetate Melatonin anestrous season and should be applied during the transition period, but the season can be synchronized. Estrus synchronisation shortens anestrous season, decreases labor for mating/insemination and estrus pursuit, and induces multiple pregnancies.

**Keywords :** ewes, goat, synchronization, progestagen, PGF2 $\alpha$

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