



# Efficacy of AISURE herbal oral liquid feed supplement on conception rate in repeat breeding graded Murrah buffaloes and cyclic graded Murrah buffaloes

P.V. PATIL, U.B. KUMBHAR AND V.M. SALUNKE

**ABSTRACT :** The present study was conducted in 4 repeat breeding and 4 cyclic graded Murrah buffaloes to see the efficacy of AISURE herbal oral liquid feed supplement on conception rate. AISURE herbal oral liquid feed supplement was drenched to all 8 buffaloes immediate after artificial insemination. Out of 4 repeat breeding buffaloes 2 (50 %) were conceived on first AI and 1 (50 %) buffalo conceived on second time AI and one not at all conceived. From the 4 cyclic buffaloes all 4 (100 %) were conceived on first AI. 75 per cent overall conception rate was observed. It is observed that AISURE herbal oral liquid feed supplement is useful in increasing the conception rate in buffaloes.

**KEY WORDS :** Herbal liquid feed supplement, Repeat breeding, Cyclic and conception rate

**HOW TO CITE THIS PAPER :** Patil, P.V., Kumbhar, U.B. and Salunke, V.M. (2014). Efficacy of AISURE herbal oral liquid feed supplement on conception rate in repeat breeding graded Murrah buffaloes and cyclic graded Murrah buffaloes. *Res. J. Animal Hus. & Dairy Sci.*, 5(2) : 157-158.

## INTRODUCTION

Repeat breeding is one of the major gynecological problems affecting reproductive efficiency and economy of milk production in dairy animals. Animals that fail to conceive after a defined number of inseminations with fertile semen (generally 3 or more) are diagnosed as repeat breeders (Levine, 1999). Though animal is cyclic the maintenance of conception is essential. Therefore there are various ways to improve conception rate in animals. Hence, the present study was undertaken to study the effect of AISURE herbal oral liquid feed supplement on conception rate in graded Murrah buffaloes.

## MATERIAL AND METHODS

The study was conducted on graded Murrah buffaloes

### MEMBERS OF RESEARCH FORUM

**Address for correspondence :**

P.V. Patil, Cattle Breeding Farm, College of Veterinary and Animal Sciences, Udgir, LATUR (M.S.) INDIA  
Email : drprafull9@rediffmail.com

**Associated Authors' :**

U.B. Kumbhar and V.M. Salunke, College of Veterinary and Animal Sciences, Udgir, LATUR (M.S.) INDIA  
Email : drvms2@rediffmail.com

maintained at Cattle breeding farm, Veterinary college, Udgir dist: Latur (Maharashtra). Four graded Murrah buffaloes with a history of repeat breeding were selected for the study and also the 4 cyclic graded Murrah buffaloes were selected for the present study. All the graded Murrah buffaloes were clinically free of disease, were aged 4–10 years, and had no history of calving difficulty in the previous parturition. These experimental graded Murrah buffaloes were fed with *ad libitum* green grass/fodder with free access to water. The animals had no abnormalities of reproductive tract on per rectal examination. They had normal estrous cycles and estrus period. Out of eight buffaloes four had failed to conceive after three inseminations, but had clear vaginal mucus discharge at estrus. Remaining four buffaloes were cyclic and showed first estrous after parturition. They were drenched the AISURE herbal oral liquid feed supplement immediate after artificial insemination. The Buffaloes were kept under close observation of 21<sup>st</sup> day, 42<sup>nd</sup> day of estrus to observe the signs of estrus if any. Pregnancy diagnosis was done based on per rectal examination after two and half month after insemination. Overall conception rate was calculated.

## RESULTS AND DISCUSSION

Out of 4 repeat breeding buffaloes inseminated and

**Table 1 : Effect of AISURE herbal oral liquid feed supplement treatment on conception rate in graded Murrah buffaloes**

Parameters	AISURE treatment	
Repeat breeder graded Murrah buffaloes treated(n)	4	
Fertility response	First service conception rate (%)	50(2/4)
	Second service conception rate (%)	50(1/2)
	First and second service conception rate (%)	50(3/6)
	Overall pregnancy rate (%)	75(3/4)
Cyclic graded Murrah buffaloes treated (n)	4	
Fertility response	First service conception rate (%)	100(4/4)
	Overall pregnancy rate (%)	100(4/4)
Overall conception rate in repeat breeder and cyclic buffaloes	87.5 (7/8)	

drenched AISURE herbal oral liquid feed supplement 225 ml orally, 2 of which (50 %) conceived after first insemination, 1 (25 %) buffalo conceived on next cycle and 1 buffalo not conceived at all. Overall 75 per cent repeat breeding buffaloes conceived after treatment with AISURE herbal oral liquid feed supplement and the remaining 25 per cent did not conceive at all. Out of 4 cyclic buffaloes all 4 buffaloes were conceived after first insemination *i.e.* 100 per cent conception rate in cyclic buffaloes were observed. AISURE herbal oral liquid feed supplement contains extracts of *Abroma agusta*, *Rubia cordifolia*, *Cyperus rotundus*, *Cynodon dactylon*, *Terminalia chebula*, *Bacopa monniera*, *Penganum harmala*, *Saraca indica*.

Repeat breeding is a multifactorial condition and there is no accurate method available for diagnosing the cause of most individual cases. In this study, 75 per cent of repeat breeder buffaloes conceived. Therefore, it is apparent that many repeat breeder buffaloes are fertile and they should not be culled from herds, especially when they are valuable. The conception rate in repeat breeding buffaloes was 50 per cent (2/2) in first service and 50 per cent (1/2) in second service. 100 per cent conception rate (4/4) was observed in cyclic buffaloes. Overall out 8 graded Murrah buffaloes 7 were pregnant and the overall conception rate found was 87.5 per cent. The results of the study showed that herbal extracts clears the uterus from undesirable conditions, improves uterine tone by improving uterine turgidity, improves sperm longevity in uterus and causes an increase in the conception rate. The herbal extract alone or in combination has nutritional, hormonal, antibacterial, ecobolic, uterotonic properties (Ravi and Bhagwat, 2007; Mohan and

Bhagwat, 2007). The antibacterial activity found may be attributed to the presence of secondary metabolites of various chemical types present in the plant material either individually or in combination (Sharma and Singh, 2011).

Madhusudan *et al.*, 2011 reported 60 per cent overall conception rate in repeat breeder cows on treatment with HimROP liquid (polyingredient herbal supplement).

Although the sample size used in the present study was small, it appeared to be sufficient to obtain a rational conclusion. The results of this study imply that AISURE oral herbal liquid feed supplement has some advantages, may improve the conception rate to some extent. However, further studies are required to confirm these findings.

### LITERATURE CITED

- Levine, H.D. (1999). The repeat breeder cow. *Bov. Pract.*, **33** : 97-105.
- Madhusudan, J.R., Bhagwat, V.G. and Dhanush, K.B. (2011). Study of the efficacy of HimROP vet liquid on conception rate in repeat breeding dairy cows. *Livestock Line*. (2011): August, 21-23.
- Mohan, D. and Bhagwat, V.G. (2007). Study to assess the efficacy of HimROP Vet liquid in management of retained placenta in dairy cows. *Veterinary World*, **5**(11) : 341-342.
- Ravi, B.K. and Bhagwat, V.G. (2007). Efficacy study of HimROP Vet liquid in the management of retained placenta and post-parturient septic metritis in bovines. *Livestock Line*, : 9-11.
- Sharma, S.K. and Singh, A.P. (2011). Antimicrobial investigations on rhizomes of *Cyperus rotundus* Linn. *Scholars Research Library*. Der Pharmacia Letter, **3**(3) : 427-431.

*Received : 23.07.2014; Accepted : 29.11.2014*