

### Short Communication

## OESTRUS INDUCTION USING CIDR DEVICE IN POST-PARTUM

Resumption of cyclical activity during post-partum period is a key determinant of profitable dairying. Several drugs, hormonal and non-hormonal, either alone or in combination have been tried for early induction of oestrus in post-partum anoestrus cows (Roche *et al.*, 1981; Macmillan and Peterson, 1993). The present investigation was envisaged to study the efficacy of EAZI-BREED CIDR devices in inducing ovulatory oestrus and fertility in post-partum anoestrus cows.

Thirty cross-bred cows belonging to Livestock Research Station, Thiruvazhamkunnu which failed to exhibit oestrus beyond 45 days post-partum and declared anoestrus by clinico-gynaecological examination were included for the trial. Among these, fifteen animals selected randomly were inserted intravaginally with EAZI-BREED CIDR device for 7 days. Remaining fifteen

animals served as control. All animals that exhibited oestrus were inseminated with frozen semen and those failed to settle with first insemination were re-inseminated at subsequent oestrus.

The retention rate of the device was 100 per cent as reported by Rajamahendran *et al.* (1981) and Macmillan and Peterson (1993). Twelve out of fifteen (80%) exhibited oestrus within a period of  $56.33 \pm 12.98$  hrs after removal of the device. The mean duration of oestrus was  $40 \pm 10.07$  hrs. The conception rate to first insemination was 41.66 percent (5 to 12) and the overall conception rate was 60 percent (9 of 15). Similar results were also reported by Rajamahendran *et al.* (1981), Macmillan and Peterson (1993), Hanlon *et al.* (1996). The outcome of this trial indicates that EAZI-BREED CIDR can be successfully used for treatment of post-partum anoestrus in cattle.

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EAZI-BREED CIDR (Inter Ag. New Zealand) consists of a Silicone elastomer moulded over a nylon spine shaped to retain the device in the vagina. Contains 1.9 gm of natural progesterone

Anoestrus in post-partum cows is successfully treated with EAZI-BREED CIDR device.

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**References**

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