

Efficacy of Oral Calcium Supplementation for Higher Milk Yield and Mastitis Prevention

1.1 OBJECTIVE: The objective of this field trial was to determine the effect of oral calcium supplementation during the lactation period for high milk yield and mastitis prevention.

The clinical study was done at dairy farm in Pali in Faridabad district in Haryana (India).

Farm Name	Variety of cows	Trial Period
Lakshay Dairy Farm	Red Sindhi	Sept, 2016

1.2 METHOD OF TRIAL:-

The study was conducted on a commercial dairy farm in Faridabad, Haryana with 65 milking cow and milk average of 3,396 kg per cow per year.

32 Postpartum cows were selected at random and allocated to two different experimental groups. Group 1(Control) consisted of 12 cows receiving no treatment at parturition. Group 2(Treated) consisted of 20 cows receiving 25 ml Aurocal plus gold B.I.D by oral route for 30 days during the early and mid lactation period for high milk yield and mastitis prevention.

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1.3 OBSERVATION TABLE:-

S.No.	Parameter	Observation day	Average Milk Production	Incidence of Mastitis
1.	Control group (12 Cows)	0 day	12 kg/ day	Not observed
		7 day	11.5 kg /day	Not observed
		14 day	10 kg / day	Not observed
		21 day	11 kg / day	Observed in 1 cow
		30 day	11 kg / day	Observed in 1 cow
2.	Treated group (20 Cows)	0 day	12 kg / day	Not observed
		7 day	13.5 kg /day	Not observed
		14 day	14 kg/day	Not observed
		21 day	14.5 kg/day	Not observed
		30 day	15.5 kg /day	Not observed

1.4 RESULTS:-

Through this trial we demonstrated that cows supplemented with oral calcium at lactation period prevents from mastitis and milk yield is increased by 30% during the observation period.

1.5 RECOMMENDED USAGE:-

- Cow and Buffalo – 25 ml orally B.I.D. during early and mid lactation period.
- Calf and Pig - 10-15 ml orally daily
- Sheep and Goat- 5 ml orally daily

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