

# 'LEPTADEN' IN CORRECTING THE IRREGULARITIES OF MILK PRODUCTION IN COWS

by

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Effect of 'Leptaden' has been compared with that of added nutritional level in correcting irregularities of milk production in cows. 30 cows were categorised in three stages of irregularities of milk production and were sorted in two Groups of 15 each. Group I was fed 'Leptaden'@ 10 tabs per day per animal for 10 days in usual concentrate and Group II was given only additional nutrition containing crushed gram, crushed wheat, gur and mustard oil in equal proportion 1 kg per day per animal for 10 days in usual concentrate and their milk yield was noted 15 days before and after treatment.

In cows which were irregular in milk production significant increase in milk yield (196.1%) was observed in 'Leptaden' treated Group as compared to nutritional treatment group in which the increase was 152.0% while within the stages of irregularities of milk production the effect of treatment was not significant. This study has shown that "Leptaden" (Vet) has place in correcting milk irregularities in cows, and that it stimulates galactopoietic response.

'Leptaden" (Alarsin) is a herbal lactogen and galactagogue and has been found to be very effective to increase the milk yield in cows and buffaloes (Moulvi, 1963; Vaishnava & Buch, 1965; Anjaria & Gupta, 1967; Murthy, 1969; Kaikini et al, 1969 and Kulkarni, 1970). It is said to help in hastening the letting down period, correct milk irregularities due to stress conditions, death of calf and other habitual conditions as milking at one time only or at irregular intervals (Kaikini et al, 1968: Chauhan et al, 1971).

In the present study the effect of 'Leptaden' has been noted, compared to added nutritional level in correcting irregularities of milk production in cows.

## Materials and Methods

30 cows were taken for the experiment. All the animals were under uniform feeding schedule and management and were sorted at random in two groups of 15 each. According to the history and condition, animals were categorised in three stages of irregularities of milk production as :

- i) Irregularities in letting down in milk
- ii) Reduction in milk yield after calving
- iii) Not giving proper quantity of milk

In Group I animals were given 'Leptaden' (Vet) @ 10 tablets per day per animal for 10 days in their usual concentrates.

In Group II animals were given 1 kg additional nutrition diet per day per animal for 10 days containing equal proportion of crushed gram, crushed wheat, Gur and mustard oil in their usual concentrate and no 'Leptaden' was given for this group.

Milk yield of all the animals before 15 days of treatment and after 15 days of treatment, average of three consecutive days was taken into consideration. The data was statistically analysed.

**TABLE 1**  
**Effect of Leptaden' and other treatment in correcting irregularities of milk production in cows.**

Stage	Condition	No.	Treatment					
			Group I - Leptaden (Quantity of milk in Kg)			Group II - Nutritional (Quantity of milk in Kg)		
			Before	After	% Improvement	Before	After	% Improvement
I	Irregular in letting down in milk	1	1.8	3.5		2.0	3.2	
		2	6.0	9.0		3.0	4.0	
		3	2.0	5.2		2.0	3.0	
		4	0.0	4.5		0.0	1.8	
		5	1.0	2.5		2.2	2.8	
	Average		2.16	4.94	228.7	1.84	2.96	160.1
II	Reduction in milk yield after calving	1	4.5	6		6.0	8.5	
		2	3.0	5.5		2.0	3	
		3	2.0	5.3		4.2	5.3	
		4	3.0	5.3		2.0	3.8	
		5	2.0	4.8		3.0	4.6	
	Average		2.90	5.38	185.5	3.44	5.04	146.5
III	Not giving proper quantity of milk	1	1.5	4.5		0.75	1.5	
		2	4.5	10.7		3.0	5	
		3	4.0	6		4.5	5.7	
		4	4.0	5.7		2.3	3.4	
		5	3.2	4.8		3.4	5.8	
	Average		3.4	6.34	184.3	2.79	4.28	154.1
	Grand Average		2.83	5.55	196.1	2.7	4.09	152

## Results And Discussion

Effect of Leptaden' tablets and other treatment on 30 cows in different stages of irregularities of milk production has been presented in Table No. 1. Analysis of variance of 'Leptaden' and other treatment in different stages of irregularities of milk production has been given in Table No. 2.

**TABLE 2**  
**Analysis of variance of Leptaden and other treatment in different stages of irregularities of milk production in cows.**

Source	Degrees of freedom	Sum of squares	Mean sum of squares	'F'
Treatments	1	2.6004	2.6004	32.56*
Stages	2	0.0614	0.0307	1 NS.
Error	2	0.1587	0.0798	
Total	5	2.8205	—	

It has been observed from Table No. 1 & 2 that there was significant increase in milk yield of cows in 'Leptaden' treated group as compared to nutritional treatment group, while within the stages of irregularities of milk production the effect of treatment was not significant.

Improvement in milk yield in 'Leptaden treated group was 196.1% as compared to 152.0% in the other group. Similarly in all the stages of irregularities in milk production, the improvement in 'Leptaden treated group was higher-it was more marked (228.7%) in irregular letting down in milk.

The present results are quite in agreement with the similar findings on 'Leptaden' treated cows (Vaishnav & Buch, 1965; Anjaria & Gupta, 1967 and Murthy, 1969). It is seen that only stimulation of galactopoietic response is necessary by drugs like 'Leptaden' to correct the irregularities of milk production in cows.

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