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Effect of supplementation of rumen bypass fat with chromium on milk yield and milk fat per cent in dairy cow

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Teaching Veterinary Clinical Complex, Post Graduate Institute of Veterinary and Animal Sciences, AKOLA (M.S.) INDIA E-mail: wps25@rediffmail.com Abstract: The present study was undertaken with the objective to evaluate the effect of rumen bypass fat with chromium supplementation on milk yield and milk fat per cent in dairy cows. Total 12 normal healthy advanced pregnant cows (1 week before expected parturition) was selected and divided randomly into two equal groups. One group (Group I) was kept without supplementation of bypass fat and given only basal diet as a control group. The second group (Group II) was supplemented with rumen bypass fat @ 100 g per animal per day along with basal diet for one week prepartum and upto the period of 4 weeks after parturition. The milk yield and milk fat per cent recorded before supplementation ('0' day) and on 7th, 14th, 21st and 30th day after supplementation of bypass fat, respectively. The milk yield was increased by 12.73 per cent in group supplemented with bypass fat (Group II) as compared to control group (7.02%) on 30th day post supplementation. The milk fat per cent was higher (4.18%) in group supplemented with bypass fat (Group II) as compared to control group (3.75%) on 30^{th} day of post supplementation. The study concluded that, the supplementation of rumen bypass fat @ 100 g per cow per day for one week before expected parturition and upto 4 weeks after parturition improved milk yield and milk fat per cent and proved to be beneficial in fulfilling the energy demand for milk production.

Key words : Dairy cows, Bypass fat, Milk yield, Milk fat per cent, Chromium, Parturition

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