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Effect of feeding dried *Moringa oleifera* leaves on feed intake, milk production and biochemical parameters in Sahiwal cows

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Abstract
The present trial was conducted for 35 days and a total of 18 Sahiwal cows were distributed in 3 equal groups. The animals in control group (T_0) were fed with concentrate, green fodder and paddy straw, whereas in treatment groups T_1 and T_2, 10% and 20% of concentrates, respectively were replaced by dried*M. oleifera* leaves. Significantly ($P<0.01$) higher average milk production was recorded in T_2 group as compared to T_1 and T_0 groups. However, there was no significant effect of supplementation of *M. oleifera* on dry matter intake and milk composition. Biochemical parameters (serum globulin, blood urea nitrogen, serum glucose, aspartate aminotransferase, gamma glutamyle transferase and lactate dehydrogenase) were also not affected by supplementation of*M. oleifera* leaves except total serum protein, albumin and total triglyceride. At the end of experiment, mean serum protein and globulin of T_2 group was higher ($P<0.05$) than control group (T_0), while total triglyceride concentration of T_2 group was lower ($P<0.05$) than T_0 group. It was concluded that dried moringa leaves could replace upto 20% of concentrate mixture in milch cows ration without any harmful effect.

Keywords: Biochemical parameters, Feed intake, Milk production, *Moringa oleifera*, Sahiwal cows