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Meeting the challenges for pasture-based dairying

The consequences of offering diets high in rumen undegradable protein during the dry period on immunoglobulin G concentrations in serum of neonates, mature dairy cows, and colostrum

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Table 2 IgG Concentration of cow and calf serum and colostrum (mg/dl)

IgG (mg/dl)	Control	Supplemented	s.e.d	P
Cow Serum	56.4	53.1	2.34	P>0.05
Calf Serum	13.6	14.0	4.50	P>0.05
Colostrum	51.3	47.2	3.60	P>0.05

Table 3. Proportion of study animals with colostrum IgG at poor, average and good concentrations at calving and calves with poor, average, good and excellent serum IgG concentrations at 24h post-calving.

Colostrum IgG	Overall (n=23)	Control (n=11)	Supplemented (n=12)
Poor <50mg/ml	0.22	0.18	0.25
Average 50-80mg/ml	0.39	0.45	0.33
Good >80 mg/ml	0.39	0.37	0.42
Calf serum IgG	Overall (n=21)	Control (n=11)	Supplemented (n=10)
Poor <10 mg/ml	0.33	0.27	0.40
Average 10-40 mg/ml	0.67	0.73	0.60
Good 40-50 mg/ml	0	0	0
Excellent >50 mg/ml	0	0	0