

## Efek substitusi konsentrat suplemen energi dan protein terhadap kinerja produksi dan reproduksi sapi perah PFH awal laktasi

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### Abstrak

The objective of this research was to study the effect of substitution protein and energy concentrates on production and reproduction performances of Friesian Holstein (FH) Crossbred in early lactation and its financial aspect. This research was carried out for 100 days in early lactation. Twelve monoparous FH Crossbred were divided into three groups of feed treatment, control groups (RK) was given all concentrates control (KK) contain CP 10.3%, TDN 51% treatment groups 1 (RP1) was given concentrates control that was substituted 25% with supplement concentrates A (KSA) which source of energy (TDN 76%, CP 17.0%) and treatment groups 2 (RP2) was given concentrates control that was substituted 25% with supplement concentrates B (KSB) which was the source of protein (CP 20.4%, TDN 73%). The data obtained were analyzed using analysis of variance One Way Completely Randomized Design, if there is differences then it was analyzed using analysis Duncant Multiple Range Test (DMRT). Parsial financial was used to measure the change of cost and income. The result showed that there were significantly different ( $P < 0.05$ ) between groups on the intake of crude protein, RP2 (1.35 kg) than RP1 (1.18 kg) and RK (1.11 kg). Milk yield, milk fat content, milk protein content and post partum mating (PPM) and TDN intake insignificantly between treatments ( $P > 0.05$ ), but average daily milk yield tend ( $P > 0.05$ ) the highest in RP2 (10.4 liter) than RP1 (9.9 liter) and RK (8.9 liter), milk fat content the highest in RP2 (3.46%) than RK (3.39%) and RP1 (2.84%), milk protein content the highest in RK (2.70%) than RP (2.58%) and RP2 (2.38%). PPM, conception rate (CR), service per conception (S/C) and days open (DO) the best in RP1 (PPM = 75 days CR = 5%, S/C = 1, DO = 70 days), than RK (PPM = 82 days, CR = 25%, S/C = 1, DO = 48 days), and RP2 (PPM = 103 days, CR = 0%, S/C = 3, DO = 165 days). Average body weight lost (RK = 5 kg, RP1 = 5 kg, RP2 = 16 kg). The highest net profit in RP1 than RP2 and RK. It was concluded that the effect of substitution of supplement energy and protein concentrates tended to increase production performance and net profit however this could not increase reproduction performance, milk quality and mobilization of body energy storage.