

**PENGARUH PENGANTIAN SUSU KAMBING DENGAN SUSU SAPI
TERHADAP PERTUMBUHAN ANAK KAMBING PERANAKAN
ETTAWA PRASAPIH DI KALASAN, SLEMAN**

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INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian susu sapi sebagai pengganti susu kambing terhadap pertumbuhan anak kambing PE prasapih. Dua belas ekor anak kambing dibagi secara acak ke dalam dua perlakuan. Enam ekor diberi susu sapi (perlakuan I) dan enam ekor diberi susu kambing (perlakuan II) mulai umur satu minggu sampai lima minggu. Data yang diperoleh dianalisis statistik menggunakan Rancangan Acak Lengkap Pola Searah. Hasil penelitian menunjukkan bahwa penggantian susu memberikan pengaruh signifikan terhadap pertambahan berat badan harian (PBBH) dan berat badan anak kambing prasapih umur lima minggu. Data PBBH secara berurutan adalah $107,56 \pm 10,29$ g/hari vs $131,19 \pm 2,54$ g/hari, berat badan prasapih umur lima minggu $6,84 \pm 0,57 \pm 0,57$ kg vs $8,87 \pm 1,61$ kg. Ukuran tubuh prasapih anak kambing umur lima minggu yang meliputi panjang badan, tinggi gumba, lingkaran dada dan panjang telinga menunjukkan perbedaan yang nyata (susu sapi = $38,50 \pm 1,05$ cm, $45,00 \pm 2,28$ cm, $41,17 \pm 1,72$ cm, $21,42 \pm 1,43$ cm dan susu kambing = $42,67 \pm 2,58$ cm, $49,67 \pm 2,88$ cm, $45,17 \pm 3,25$ cm, $23,33 \pm 1,51$ cm). Konsumsi susu sapi lebih tinggi dibandingkan susu kambing ($1427,31 \pm 37,31$ g/ekor/hari vs $1224,66 \pm 55,26$ g/ekor/hari). Konsumsi protein susu sapi lebih rendah dibandingkan susu kambing ($44,25 \pm 1,16$ g/hari vs $47,40 \pm 2,14$ g/hari). Pertumbuhan anak kambing yang mengkonsumsi susu kambing lebih baik dibandingkan susu sapi.

(Kata kunci : Anak Kambing PE, Susu Kambing, Susu Sapi, Pertumbuhan Prasapih)

REPLACEMENT EFFECT OF GOAT MILK WITH COW'S MILK ON THE GROWTH OF PRE WEANING ETTAWAH CROSSBRED GOAT IN KALASAN, SLEMAN

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ABSTRACT

This study was planned to investigate the effect of replacement goat milk with cow's milk on growth performance of pre weaning of Etawah Crossbred goat. Twelve pre weaning goats were divided randomly into cow's milk treatment and goat milk treatment from first week to 5 weeks. Data were statistically analyzed using One way analysis of variance (ANOVA) for a Complete Randomized Design. Results showed that milk replacement had significant effects ($P < 0,05$) on average daily gain and pre weaning body weight of five weeks. Average daily gain of pre weaning goat consumed cow's milk and goat milk consecutively ($107,56 \pm 10,29$ g/day vs $131,19 \pm 2,54$ g/day), preweaning body weight of five weeks ($6,84 \pm 0,57$ kg vs $8,87 \pm 1,61$ kg). Pre weaning body size of five weeks covered body length, hump, chest circumference, and ears length showed significant differences (cow's milk = $38,50 \pm 1,05$ cm, $45,00 \pm 2,28$ cm, $41,17 \pm 1,72$ cm, $21,42 \pm 1,43$ cm and goat milk = $42,67 \pm 2,58$ cm, $49,67 \pm 2,88$ cm, $45,17 \pm 3,25$ cm, $23,33 \pm 1,51$ cm). Cow's milk consumption was significantly higher than milk goat ($1427,31 \pm 37,31$ g/head/day vs $1224,66 \pm 55,26$ g/head/day). Milk proteins consumption from cow's was significantly lower than from goat milk ($44,25 \pm 1,16$ g/day vs $47,40 \pm 2,14$ g/day). The growth of pre weaning Etawah crossbred consumed goat milk was better than cow's milk.

Key words: Pre weaning Etawah Crossbred goat, Goat milk, Cow's milk, Pre weaning growth