

PROFIL LEUKOSIT PADA KAMBING LOKAL YANG DIPELIHARA DI PETERNAKAN RAKYAT

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INTISARI

Penelitian ini bertujuan untuk mengetahui profil sel darah putih (leukosit) kambing lokal yang dipelihara di peternakan rakyat. Materi yang digunakan dalam penelitian ini adalah 60 ekor kambing lokal, yaitu kambing PE (30 ekor) dan Bligon (30 ekor), berumur mencapai 12 sampai 13 bulan yang berasal dari peternakan rakyat, dan mempunyai rata-rata bobot badan 35 kg. Data yang diambil adalah status faali dan profil leukosit. Status faali yang diamati meliputi: respirasi, pulsus, dan temperatur rektal. Profil leukosit yang diamati meliputi jumlah: limfosit, monosit, neutrofil, basofil, dan eosinofil. Data dianalisis menggunakan uji *Independent Sample T-test*. Hasil penelitian menunjukkan tidak terdapat perbedaan nyata pada status faali pada masing-masing jenis kambing. Status faali kambing PE dan Bligon berturut-turut adalah respirasi: $40,06 \pm 2,8$ (kali/menit) dan $40,18 \pm 3,7$ (kali/menit), pulsus $78,26 \pm 3,9$ (kali/menit) dan $78,83 \pm 4,6$ (kali/menit), dan temperatur rektal ($^{\circ}\text{C}$) $39,8 \pm 0,83$ dan $39,07 \pm 0,42$. Profil leukosit kambing PE dan Bligon meliputi: limfosit, monosit, basofil, neutrofil dan eosinofil. Limfosit $35,76 \pm 2,51$ dan $31,72 \pm 1,78$ (%), monosit $0,04 \pm 0,02$ dan $0,02 \pm 0,01$ (%), basofil 0 %, neutrofil $55,86 \pm 2,34$ dan $65,08 \pm 1,09$ (%), eosinofil $0,62 \pm 0,48$ dan $0,56 \pm 0,24$ (%). Kesimpulan dari penelitian ini yaitu profil leukosit kambing lokal yang dipelihara di peternakan rakyat adalah relatif sama karena kondisi status faali kambing lokal dalam keadaan sehat.

Kata Kunci: Profil leukosit, kambing PE, kambing Bligon, peternakan rakyat.

LEUKOCYTE PROFILE OF LOCAL GOATS MAINTAINED BY SMALLHOLDER FARMERS

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ABSTRACT

The study was done to determine the leukocyte profile of local goat kept on smallholder farmers. Sixty of local goats, 12 to 13 months of age, average of 35 kg of body weight were divided into 2 groups. Group I was consisted 30 PE does and group II was consisted 30 Bligon does. Blood profile was analyzed in Faculty of Veterinary Medicine, Universitas Gadjah Mada. Respiration, pulses, and rectal temperature were observed as physiological status. Observation of leukocyte profile included lymphocytes, monocytes, neutrophils, basophils, and eosinophils. All data were analyzed using independent T-test sample. The results showed that there was no significant in the physiological status of each type of goats. Physiologic status of PE and Bligon does included respiration, pulsus, and rectal temperature were 40.06 ± 2.8 vs 40.18 ± 3.7 times / min, 78.26 ± 3.9 vs 78.83 ± 4.6 times / min, 39.8 ± 0.83 vs 39.07 ± 0.42 °C. Lymphocytes and monocytes of PE and Bligon were 35.76 ± 2.51 and 31.72 ± 1.78 % and 0.04 ± 0.02 and 0.02 ± 0.01 %. Basophils of PE and Bligon were 0%. Neutrophils and eosinophils of PE and Bligon were 55.86 ± 2.34 and 65.08 ± 1.09 % and 0.62 ± 0.48 and 0.56 ± 0.24 %. It could be concluded that leukocyte profile of local goats smallholder by farmers were the same and normal because physiological status conditon of local goats were healthy and normal.

Keywords: Leukocyte profile, PE goat, Bligon goat, smallholder farmers.