

RINGKASAN

MUNASIK. Nilai hematokrit dan mean corpuscular volume (MCV) pada berbagai ayam sentul periode awal. Penelitian dilaksanakan tanggal 10 Agustus sampai dengan 10 Oktober 2014 di Experimental Farm Fakultas Peternakan, Universitas Jenderal Soedirman Purwokerto dan Laboratorium Patologi Klinik Fakultas Kedokteran Hewan Universitas Gadjah Mada Yogyakarta. Penelitian bertujuan untuk mengetahui perbedaan nilai hematokrit dan mean corpuscular volume (MCV) pada berbagai ayam sentul periode awal.

Materi yang digunakan dalam penelitian ini adalah *day old chick* ayam sentul jantan dan betina umur satu hari sebanyak 250 ekor yang terdiri dari lima jenis ayam sentul, yaitu ayam Sentul Geni, Sentul Batu, Sentul Abu, Sentul Debu, dan Sentul Emas. Ayam sentul dipelihara mulai umur satu hari sampai delapan minggu. Metode penelitian yang digunakan adalah Rancangan Acak Lengkap (RAL) dengan lima perlakuan, setiap perlakuan diulang sebanyak lima kali dan setiap unit percobaan terdiri dari 250 ekor ayam sentul jantan dan betina umur delapan minggu. Perlakuan yang diteliti, yaitu Sa = Ayam Sentul Abu, Sb = Ayam Sentul Batu, Sd = Ayam Sentul Debu, Se = Ayam Sentul Emas, Sg = Ayam Sentul Geni. Pengambilan sampel darah dilakukan pada ayam sentul betina umur delapan minggu data yang diperoleh dianalisis variansi. Apabila perlakuan berpengaruh nyata, maka dilanjutkan dengan uji beda nyata jujur (BNJ).

Berdasarkan hasil pengukuran nilai hematokrit dari 25 ekor ayam sentul betina umur delapan minggu yang terdiri atas ayam sentul abu, sentul batu, sentul debu, sentul emas dan sentul geni diperoleh hasil rata-rata nilai hematokrit sebesar $28,1 \pm 2,5$ dengan kisaran antara 20% sampai 30%. Hasil penelitian masih berada dalam kisaran normal. Hasil analisis variansi menunjukkan bahwa perbedaan jenis ayam sentul periode awal berpengaruh tidak nyata ($P > 0,05$) terhadap nilai hematokrit. Berdasarkan hasil perhitungan mean corpuscular volume (MCV) diperoleh rata-rata nilai mean corpuscular volume (MCV) sebesar $114,752 \pm 27,951$ femtoliter dengan kisaran antara 64,51 femtoliter sampai 159,09 femtoliter. Hasil penelitian masih berada dalam kisaran normal. Hasil analisis variansi menunjukkan bahwa perbedaan jenis ayam sentul betina umur delapan minggu berpengaruh tidak nyata ($P > 0,05$) terhadap mean corpuscular volume (MCV). Kesimpulan penelitian, berbagai ayam sentul memiliki nilai hematokrit dan mean corpuscular volume (MCV) yang relatif sama. Saran penelitian, perlu diadakan penelitian lebih lanjut mengenai ayam sentul periode awal.

SUMMARY

MUNASIK. Hematocrit values and mean corpuscular volume (MCV) in a starter period of sentul chickens variety. The research was conducted August 10 through October 10, 2014 at the Experimental Farm Faculty of Animal Husbandry, Jenderal Soedirman University Purwokerto and Clinical Pathology Laboratory of the Faculty of Veterinary Medicine, University of Gadjah Mada. The study aims to determine differences in hematocrit and mean corpuscular volume (MCV) in a starter period of sentul chicken variety.

The material used in this study is a day old chick sentul chickens and 250 one-day-aged sentul chickens that consist of five varieties, namely Sentul Abu, Sentul Batu, Sentul Debu, Sentul Emas and Sentul Geni. Sentul chickens reared from the age of one day to eight weeks. The method used was completely randomized design (CRD) with five treatments, each treatment was repeated five times, and each experimental unit consisted of 250 male and female sentul chickens aged eight weeks. The treatment under study, namely Sa = Sentul Abu, Sb = Sentul Batu, Sd = Sentul Debu, Se = Sentul Emas, Sg = Sentul Geni. Blood sampling performed on eight-weeks aged female sentul chicken, the data were analyzed in variance. If the treatment affect significantly, then followed by honestly significant difference (HSD).

Based on the results of 25 eight-weeks-aged female sentul chickens hematocrit value measurements which consisted of sentul abu, sentul batu, sentul debu, sentul emas and sentul geni, the average hematocrit value resulted 28.1 ± 2 , with a range between 20% to 30%. The results of this research is still in the normal range. Results of variance analysis showed that the differences in types of starter period sentul chickens was not have significant effect ($P > 0.05$) to the value of hematocrit. Based from the calculation of the mean corpuscular volume (MCV), obtained 114.752 ± 27.951 femtoliter in the range of 64.51 to 159.09 femtoliter. The results of this research is still in the normal range. The results of variance analysis showed that the differences in eight-weeks-aged female sentul chickens varieties did not affect significantly ($P > 0.05$) from the mean corpuscular volume (MCV). The conclusion of this study, various sentul chickens has relatively the same hematocrit value and mean corpuscular volume (MCV). Research suggestion, there should be further studies on starter period sentul chickens.