

ABSTRAK

PENGARUH PEMBERIAN EKSTRAK DAUN PEPAYA TERHADAP SEL DARAH MERAH, HEMOGLOBIN dan *PACKED CELL VOLUME* DARAH KAMBING JAWARANDU JANTAN

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Penelitian ini bertujuan untuk mengetahui pengaruh pemberian ekstrak daun pepaya terhadap sel darah merah, hemoglobin dan *packed cell volume* darah kambing Jawarandu jantan. Penelitian ini dilaksanakan pada September-November 2024 di Adijaya Farm, Kampung Adi Jaya, Kecamatan Terbanggi Besar, Kabupaten Lampung Tengah, Provinsi Lampung. Pemeriksaan terhadap total sel darah merah, hemoglobin dan *packed cell volume* dilakukan di Laboratorium Rumah Sakit Hewan Prof. Soeparwi, Fakultas Kedokteran Hewan, Universitas Gadjah Mada. Penelitian ini dilakukan menggunakan Rancangan Acak Lengkap (RAL) dengan 4 percobaan dan 3 ulangan. Percobaan dilakukan pada 12 ekor kambing Jawarandu jantan. Perlakuan yang diberikan yaitu *complete feed* (P0), *complete feed* + 75 mg ekstrak daun pepaya /kg BB/hari (P1), *complete feed* + 150 mg ekstrak daun pepaya /kg BB/hari (P2), dan *complete feed* + 225 mg ekstrak daun pepaya /kg BB/hari (P3). Data yang diperoleh dari hasil penelitian disajikan dalam bentuk tabulasi dan histogram kemudian dilakukan analisis deskriptif untuk mendapatkan suplementasi yang memberikan pengaruh terbaik terhadap total sel darah merah, hemoglobin dan nilai PCV kambing Jawarandu jantan. Berdasarkan penelitian yang telah dilakukan disimpulkan bahwa pemberian ekstrak daun pepaya dengan dosis 150 mg pada kambing Jawarandu jantan dapat menghasilkan total eritrosit dan nilai *packed cell volume* pada kisaran standar normal, namun pada kadar hemoglobin yang dihasilkan cenderung sedikit lebih rendah. Untuk menjaga kondisi hematologis yang optimal pada kambing Jawarandu jantan, disarankan kepada peternak untuk memberikan ekstrak daun pepaya dengan dosis 225 mg/kg bobot badan, karena dosis tersebut diperkirakan lebih efektif dalam mempertahankan keseimbangan parameter darah, termasuk kadar hemoglobin.

Kata kunci: Ekstrak daun pepaya, kambing Jawarandu jantan, total Eritrosit, kadar Hemoglobin, kadar Hemakrit

ABSTRACT

EFFECT OF PAPAYA LEAF EXTRACT ON RED BLOOD CELLS, HEMOGLOBIN and PACKED CELLS BLOOD VOLUME OF MALE JAWARANDU GOATS

By

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This research aims to determine the effect of papaya leaf extract on red blood cells, hemoglobin, and packed cell volume of male Jawarandu goats. The research was conducted from September to November 2024 at Adijaya Farm, Adi Jaya Village, Terbanggi Besar District, Central Lampung Regency, Lampung Province. Examination of total red blood cells, hemoglobin, and packed cell volume was performed at the Prof. Soeparwi Animal Hospital Laboratory, Faculty of Veterinary Medicine, Gadjah Mada University. This research was conducted using a Completely Randomized Design (CRD) with 4 treatments and 3 replications. The experiment was conducted on 12 male Jawarandu goats. The treatments given were complete feed (P0), complete feed + 75 mg of papaya leaf extract/kg BW/day (P1), complete feed + 150 mg of papaya leaf extract/kg BW/day (P2), and complete feed + 225 mg of papaya leaf extract/kg BW/day (P3). The data obtained from the research results are presented in tabular and histogram form, followed by descriptive analysis to identify the supplementation that has the best effect on the total red blood cells, hemoglobin, and PCV value of male Jawarandu goats. Based on the research conducted, it is concluded that the administration of papaya leaf extract at a dose of 150 mg to male Jawarandu goats can result in total erythrocytes and packed cell volume values within the normal standard range, but the hemoglobin levels produced tend to be slightly lower. To maintain optimal hematological conditions in male Jawarandu goats, it is recommended for farmers to provide papaya leaf extract at a dose of 225 mg/kg body weight, as this dose is considered more effective in maintaining the balance of blood parameters, including hemoglobin levels.

Keywords: Papaya leaf extract, male Jawarandu goats, total erythrocytes
hemoglobin levels, hematocrit levels