

ABSTRAK

STUDI KADAR KOLESTEROL DARAH PADA ITIK MAGELANG (*Anas domesticus*)

Pande Putu Akira Narayana
17/412442/KH/09338

Penelitian ini ditujukan untuk mengevaluasi status kadar kolesterol darah dan pengaruh perubahan waktu dalam sehari pada itik Magelang. Tiga ekor itik Magelang jantan sehat umur tiga bulan digunakan dalam penelitian ini. Hewan dikandangkan secara individual dan diberi pakan pada pukul 07.00 WIB dan 16.00 WIB sebanyak 270 g/hari. Air minum disediakan secara *ad libitum*. Setelah melalui proses adaptasi kandang dan pakan selama dua minggu, dilakukan koleksi darah dan pengukuran kadar kolesterol darah dengan *rapid test* menggunakan GCU meter pada pukul 06.00, 10.00, 14.00, 18.00, 22.00, dan 02.00 WIB. Analisis data dilakukan dengan *One-way ANOVA*. Rerata kadar kolesterol pada darah pada pukul 06.00, 10.00, 14.00, 18.00, 22.00, dan 02.00 WIB masing-masing sebesar $179,00 \pm 22,539$ mg/dL, $162,00 \pm 22,271$ mg/dL, $148,67 \pm 27,006$ mg/dL, $179,00 \pm 31,241$ mg/dL, $152,33 \pm 18,771$ mg/dL, dan $163,33 \pm 11,719$ mg/dL. Hasil analisis statistik menunjukkan bahwa waktu dalam sehari tidak berpengaruh signifikan terhadap kadar kolesterol di dalam darah ($P > 0,05$). Berdasarkan hasilnya disimpulkan bahwa kadar kolesterol darah pada itik Magelang tidak dipengaruhi oleh waktu dalam satu hari.

Kata kunci: Itik Magelang, Kolesterol, Irama sirkadian.

ABSTRACT

STUDY ON BLOOD CHOLESTEROL LEVELS IN MAGELANG DUCK (*Anas domestica*)

Pande Putu Akira Narayana
17/412442/KH/09338

This study aimed to evaluate the effect of changes in time of day to the status of blood cholesterol levels in Magelang ducks. Three healthy male Magelang ducks aged three months were used in this study. Animals were housed individually and fed at 07.00 and 16.00 as much as 270 g/day. Drinking water is provided ad libitum. After going through the process of adapting to the cage and feed for two weeks, blood collection and blood cholesterol levels were measured using a rapid test called GCU meter at 06.00, 10.00, 14.00, 18.00, 22.00, and 02.00. Data analysis was performed using One-way ANOVA. The average blood cholesterol levels at 06.00, 10.00, 14.00, 18.00, 22.00, and 02.00 were 179.00 ± 22.539 mg/dL, 162.00 ± 22.271 mg/dL, 148.67 ± 27.006 mg/dL, 179.00 ± 31.241 mg/dL, 152.33 ± 18.771 mg/dL, and 163.33 ± 11.719 mg/dL respectively. The results of statistical analysis showed that the time of day had no significant effect on cholesterol levels in the blood ($P > 0.05$). Based on the results, it was concluded that blood cholesterol levels in Magelang ducks were not affected by time of day.

Keywords: *Magelang Duck, Cholesterol, Circadian Rhythm*