

ABSTRAK

TANIA NIKMATUL MAULA. Penelitian ini bertujuan untuk mengetahui hubungan kadar trigliserida dan kolesterol darah terhadap kadar lemak susu kambing Sapera. Penelitian dilakukan di Siliwangi Farm, Wonosobo, dan Gaza Farm, Banyumas dengan menggunakan 30 ekor kambing Sapera laktasi. Sampel darah diambil melalui vena jugularis untuk analisis trigliserida dan kolesterol menggunakan metode spektrofotometri, sedangkan kadar lemak susu diukur menggunakan *Lactoscan*. Hasil penelitian menunjukkan bahwa rata-rata trigliserida, kolesterol dan lemak susu sebesar 19,78 mg/dl; 145,09 mg/dl; 4,58%. Trigliserida darah memiliki nilai median (21,03 mg/dl), minimal (1,33 mg/dl), maksimal 36,13 mg/dl dan standar deviasi (8,87 mg/dl). Kadar kolesterol darah memiliki nilai median (139,83 mg/dl), minimal (93,45 mg/dl), maksimal (248,05 mg/dl) dan standar deviasi (32,69 mg/dl). Kadar lemak susu memiliki nilai median (4,58%), minimal (3,43%), maksimal (6,12%) dan standar deviasi (0,69%). Kadar trigliserida darah memiliki hubungan negatif dengan kadar lemak susu ($R^2 = -0,2467$), yang mengindikasikan bahwa peningkatan trigliserida darah cenderung menurunkan kadar lemak susu. Sebaliknya, kadar kolesterol darah memiliki hubungan positif dengan kadar lemak susu ($R^2 = 0,1789$), menunjukkan bahwa peningkatan kolesterol darah berkontribusi terhadap peningkatan kadar lemak susu. Uji-T menunjukkan bahwa trigliserida, kolesterol dan lemak susu antara kedua *farm* tersebut tidak berbeda nyata ($P > 0,05$).

Kata Kunci : Trigliserida, Kolesterol, Lemak Susu, Kambing Sapera.

ABSTRACT

TANIA NIKMATUL MAULA. This study aims to determine the relationship between blood triglyceride and cholesterol levels and milk fat content of Sapera goats. The study was conducted at Siliwangi Farm, Wonosobo, and Gaza Farm, Banyumas using 30 lactating Sapera goats. Blood samples were taken through the jugular vein for triglyceride and cholesterol analysis using the spectrophotometric method, while milk fat content was measured using Lactoscan. The results showed that the average triglyceride, cholesterol and milk fat were 19.78 mg/dl; 145.09 mg/dl; 4.58%. Blood triglycerides have a median value (21.03 mg/dl), minimum (1.33 mg/dl), maximum 36.13 mg/dl) and standard deviation (8.87 mg/dl). Blood cholesterol levels had a median value (139.83 mg/dl), minimum (93.45 mg/dl), maximum (248.05 mg/dl) and standard deviation (32.69 mg/dl). Milk fat content had a median value (4.58%), minimum (3.43%), maximum (6.12%) and standard deviation (0.69%). Blood triglyceride levels had a negative relationship with milk fat content ($R^2 = -0.2467$), indicating that increasing blood triglycerides tended to decrease milk fat content. Conversely, blood cholesterol levels had a positive relationship with milk fat content ($R^2 = 0.1789$), indicating that increasing blood cholesterol contributed to increasing milk fat content. T-test showed that triglycerid, cholesterol and milk fat between the two farms were not significantly different ($P > 0.05$).

Keywords: Triglycerides, Cholesterol, Milk Fat, Sapera Goat.