

**PENGARUH EKSTRAK KULIT TERUNG UNGU (*Solanum melongena L.*)  
TERHADAP KADAR KOLESTEROL TOTAL TIKUS GALUR WISTAR  
(*Rattus norvegicus*) DIABETES YANG DIINDUKSI ALOKSAN**

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**ABSTRAK**

Dislipidemia pada pasien diabetes melitus menyebabkan aterosklerosis yang memicu penyakit kardiovaskular dengan kematian tertinggi di Indonesia. Terapi alternatif dengan kulit terung ungu (*Solanum melongena L.*) yang mengandung flavonoid, bekerja sebagai inhibitor HMG-KoA reduktase. Tujuan penelitian ini untuk mengetahui pengaruh ekstrak kulit terung ungu (EKTU) terhadap kadar kolesterol total tikus Wistar (*Rattus norvegicus*) diabetes yang diinduksi aloksan. Desain penelitian adalah *true experiment* menggunakan *posttest only control group design*. Sampel tikus Wistar 30 ekor, berat 150-200 gram, dan usia 2-3 bulan diambil secara *simple random sampling*. Tikus diberi pakan tinggi lemak dan dikelompokkan menjadi K1 (pakan standar, akuades), K2 (aloksan), K3 (aloksan, simvastatin), dan K4, K5, K6 {aloksan, EKTU dosis 75, 150, dan 300 (mg/kgBB)}, dengan perlakuan 14 hari. Tikus dianestesi dengan Ketamine Xylazin, darah dimasukkan dalam tabung EDTA dan periksa kolesterol total dengan metode CHOD-PAP. Hasil uji Kruskal Wallis terdapat pengaruh EKTU terhadap kadar kolesterol total tikus Wistar diabetes ( $p=0,009$ ). Uji Post-Hoc Man Whitney pemberian EKTU dosis 150 mg/kgBB hampir sama dengan simvastatin ( $p=0,402$ ). Ekstrak kulit terung ungu dapat menurunkan kadar kolesterol total tikus Wistar diabetes.

**Kata Kunci:** Ekstrak Kulit Terung Ungu, Diabetes Melitus, Aloksan, Kolesterol Total

**EFFECT OF PURPLE EGGPLANT PEEL EXTRACT (*Solanum melongena* L.) ON TOTAL CHOLESTEROL LEVEL OF WISTAR DIABETIC RATS (*Rattus norvegicus*) INDUCED BY ALLOXAN**

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**ABSTRACT**

*Dyslipidemia in patients with diabetes mellitus causes atherosclerosis, triggering cardiovascular disease with the highest mortality rate in Indonesia. Alternative therapy with purple eggplant (*Solanum melongena* L.) peel, which contains flavonoids, acts as an HMG-CoA reductase inhibitor. The aim of this study was to determine the effect of purple eggplant peel extract (EKTU) on the total cholesterol levels of Wistar diabetic rats (*Rattus norvegicus*) induced with alloxan. The research design was a true experiment using a posttest-only control group design. Thirty Wistar rats, weighing 150-200 grams and aged 2-3 months, were randomly selected. The rats were fed a high-fat diet and divided into K1 (standard diet, distilled water), K2 (alloxan), K3 (alloxan, simvastatin), and K4, K5, K6 {alloxan, EKTU doses of 75, 150, and 300 (mg/kgBW)}, with a treatment period of 14 days. The rats were anesthetized with Ketamine Xylazine, blood was collected in EDTA tubes, and total cholesterol was examined using the CHOD-PAP method. The Kruskal-Wallis test results showed the influence of EKTU on the total cholesterol levels of Wistar diabetic rats ( $p=0.009$ ). Post-Hoc Mann-Whitney test showed that the administration of EKTU at a dose of 150 mg/kgBW was almost the same as simvastatin ( $p=0.402$ ). Purple eggplant peel extract can reduce the total cholesterol levels in Wistar diabetic rats.*

**Keywords:** *Purple Eggplant Peel Extract, Diabetes Mellitus, Alloxan, Total Cholesterol*