

**EFEK PEMBERIAN SARI MARKISA UNGU (*Passiflora edulis var edulis*)  
BERBAGAI DOSIS TERHADAP GAMBARAN HISTOPATOLOGI  
GINJAL TIKUS WISTAR (*Rattus norvegicus*)**

**Studi Pada Uji Toksisitas Subkronis**

**ABSTRAK**

**Latar belakang:** Pengobatan herbal di negara berkembang memiliki persentase sebesar 80%, salah satu pengobatan yang dapat dipilih adalah obat herbal. Obat herbal mengandung bahan kimia yang banyak manfaatnya bagi kesehatan. Manfaat bisa didapatkan dari buah yang sudah banyak dibudidayakan di Indonesia dan banyak diteliti yaitu markisa ungu. **Tujuan:** Uji toksisitas bertujuan untuk mengetahui pengaruh pemberian sari markisa ungu berbagai dosis terhadap gambaran histopatologi ginjal tikus pada studi uji toksisitas subkronis tikus (*Rattus norvegicus*) Galur Wistar. **Metode:** Penelitian ini merupakan penelitian eksperimental menggunakan *post test only with control group design*. Sejumlah 50 ekor tikus dibagi menjadi 5 kelompok. KI sebagai kelompok kontrol, KII, KIII, KIV, dan KV merupakan kelompok perlakuan yang mendapat sari markisa ungu dengan masing masing dosis secara berturut turut 4,2 ml/200gBB/hari, 8,4 ml/200gBB/hari, 12,6 ml/200gBB/hari, 16,8 ml/200gBB/hari selama 28 hari. Setelah perlakuan selesai organ ginjal tikus akan diambil untuk diamati gambaran histopatologinya dan dilakukan skoring berdasarkan kriteria arasd. **Hasil:** Uji *kruskal wallis* berturut turut pada semua kelompok perlakuan menunjukkan hasil pada kategori *granular cast*, *cellular cast*, *protein cast*, *hydropic cells* dan *pycnotic cells* yaitu  $p=0.144$ ,  $p=0.70$ ,  $p=0.17$ ,  $p=0.152$ ,  $p=0.073$ . Hasil uji tersebut menunjukkan nilai ( $p>0,05$ ). **Kesimpulan:** Pemberian sari markisa ungu (*Passiflora edulis var edulis*) berbagai dosis tidak berpengaruh signifikan terhadap gambaran histopatologi ginjal tikus (*Rattus norvegicus*) Galur Wistar pada uji toksisitas subkronis.

---

**Kata kunci:** Histopatologi ginjal, sari markisa ungu, uji toksisitas subkronis.

**THE EFFECT OF PURPLE PASSION FRUIT JUICE (*Passiflora edulis* var *edulis*) VARIOUS DOSAGE ON HISTOPATHOLOGICAL OF THE KIDNEY IN RAT WISTAR STRAIN (*Rattus norvegicus*)**

**Study on Subchronic Purple Passion Fruit Toxicity Test**

**ABSTRACT**

**Introduction:** Herbal medicine contains chemicals that have many health benefits. Benefits can be obtained from a fruit that has been widely cultivated and studied in Indonesia, namely purple passion fruit. **Objective:** The purpose of the toxicity test was to determine the effect of administration of purple passion fruit juice in various doses on the histopathological picture of the kidney of rats in the subchronic toxicity test of Wistar rats (*Rattus norvegicus*). **Methods:** This research is an experimental study using post test only with control group design. A total of 50 rats were divided into 5 groups. KI as the control group, KII, KIII, KIV, and KV were the treatment groups that received purple passion fruit juice with each dose successively 4.2 ml/200gBW/day, 8.4 ml/200gBW/day, 12.6 ml /200gBW/day, 16.8 ml/200gBW/day for 28 days. After the treatment is complete, the rat's kidneys will be taken to observe the histopathological picture and score based on Arsal criteria. **Results:** The Kruskal Wallis test in succession in all treatment groups showed results in the categories of granular cast, cellular cast, protein cast, hydropic cells and pycnotic cells, namely  $p=0.144$ ,  $p=0.70$ ,  $p=0.17$ ,  $p=0.152$ ,  $p=0.073$ . The test results show a value ( $p>0.05$ ). **Conclusion:** The administration of purple passion fruit (*Passiflora edulis* var *edulis*) extract at various doses did not significantly affect the kidney histopathological picture of Wistar strain rats (*Rattus norvegicus*) in the subchronic toxicity test.

---

**Keywords:** histopathology kidney, purple passionfruit juice, subchronic toxicity test.