ABSTRAK

GAMBARAN HISTOPATOLOGI LAMBUNG MENCIT GALUR Swiss Webster JANTAN PASCA PEMBERIAN MINYAK BUAH MERAH (Pandanus conoideus Lam.)

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Buah merah sangat populer bagi masyarakat Papua dan menjadi salah satu makanan tradisional masyarakat Papua. Dewasa ini penggunaan buah merah sebagai obat tradisional sudah sangat luas. Untuk itu perlu diketahui efek samping penggunaan buah merah terhadap organ pencernaan utama, yaitu dalam penelitian ini akan diamati perubahan histopatologis lambung dengan menilai derajat erosi mukosa lambung. Tujuan penelitian ini adalah untuk menilai apakah buah merah (Pandanus conoideus Lam.) menyebabkan erosi mukosa lambung mencit galur Swiss Webster jantan.

Penelitian ini menggunakan mencit Swiss Webster jantan yang dibagi dalam 4 kelompok (n=6). Kelompok kontrol negatif hanya diberi aquabides, sedangkan kelompok perlakuan diberi minyak buah merah. Kelompok perlakuan I (BM1) diberi 0,1 mL, kelompok perlakuan II (BM2) diberi 0,2 mL, dan kelompok perlakuan III (BM3) diberi 0,4 mL. Lambung mencit dibuat sediaan histopatologis dengan pewarnaan Haematoxylin Eosin (HE) dan diamati di bawah mikroskop cahaya dengan menggunakan Wattimena Score. Analisis data dilakukan dengan uji Kruskal-Wallis satu arah dan dilanjutkan dengan uji Mann-Whitney U dengan tingkat kepercayaan 95% (alpha=0,05), tingkat kemaknaan berdasarkan nilai p ≤ 0,05.

Hasil penelitian menunjukkan pada kelompok perlakuan BM1, BM2 dan BM3 terdapat erosi pada epitel permukaan mukosa lambung dibandingkan dengan kontrol negatif.

Dari hasil penelitian ini disimpulkan bahwa pemberian minyak buah merah menyebabkan perubahan gambaran histopatologis mukosa lambung berupa erosi.

Kata kunci: buah merah (Pandanus conoideus Lam.), lambung, erosi
ABSTRACT

HISTOPATHOLOGICAL PROFILE OF Swiss Webster MALE MICE STOMACH AFTER RED FRUIT OIL (Pandanus conoideus Lam.) ADMINISTRATION

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Red fruit is a very popular fruit and become one of the indigenous fruit from Papua. Recently, red fruit is widely used as a traditional medicine. Therefore, the study regarding its side effect upon the main digestive organs should be addressed. The purpose of this study was to evaluate whether red fruit (Pandanus conoideus Lam.) causes erosion on the stomach mucosae in Swiss Webster male mice.

The study used 4 groups (n=6). The negative control group was given aquabidest and the others were given red fruit oil. Group I (BM1) was given 0.1 mL, group II (BM2) 0.2 mL and group III (BM3) 0.4 mL. In the end of experiment, all mice were sacrificed and the stomach were removed and the histopathological were analyzed using Wattimena Score. Kruskal-Wallis one-way test was used to analyze the data and continued with Mann-Whitney U test with $\alpha = 0.05$ and $p \leq 0.05$.

Result showed that the surface of epithelial layers of stomach from group BM1, BM2 and BM3 erosived compared to the negative control group.

Conclusion of this study, the administration of red fruit oil can cause erosion in stomach mucosae.

Keywords: red fruit (Pandanus conoideus Lam.), stomach, erosion
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