ABSTRAK

Pemeriksaan hitung jumlah trombosit penting untuk menegakkan diagnosis semua jenis penyakit, guna memantau proses dan kualitas pengobatan. Hasil penelitian Balligho,2023 pada hitung jumlah trombosit dengan pewarna safranin memiliki kualitas yang sama dengan pewarna Rees Ecker. Tujuan penelitian untuk mengetahui perbedaan waktu penyimpanan pada pewarna safranin terhadap hasil hitung jumlah trombosit metode Rees Ecker. Metode yang digunakan eksperimental desain *Static Group Comparasion* pada 10 sampel darah normal. Trombosit dihitung dengan hemositometer *Improved Neubauer* menggunakan pewarna Rees Ecker sebagai kontrol dan pewarna safranin dengan penyimpanan 0, 1, 7, dan 14 hari. Hasil uji normalitas dan homogenitas tidak normal dan tidak homogen. Hasil uji *Kruskall Wallis* didapatkan nilai p-value 0,015 ($p < 0,05$), artinya, terdapat perbedaan. Dapat disimpulkan hasil data yang didapatkan terdapat perbedaan hasil hitung jumlah trombosit menggunakan variasi waktu penyimpanan pewarna safranin.

Kata Kunci: Hitung Jumlah Trombosit, Waktu Penyimpanan, Safranin

ABSTRACT

Platelet count examination is important to diagnose all types of diseases, to monitor the process and quality of treatment. The results of research by Balligho, 2023 on counting platelets with safranin dye were of the same quality as Rees Ecker dye. The aim of the research was to determine the difference in storage time for safranin dye on the results of platelet counts using the Rees Ecker method. The method used was experimental Static Group Comparison design on 10 normal blood samples. Platelets were counted with an Improved Neubauer hemocytometer using Rees Ecker dye as a control and safranin dye with storage of 0, 1, 7 and 14 days. The results of the normality and homogeneity tests are not normal and not homogeneous. The results of the Kruskall Wallis test showed a p-value of 0.015 ($p < 0.05$), meaning that there was a difference. It can be concluded that the results of the data obtained are differences in platelet count results using variations in the storage time of the safranin dye.

Keywords: *Platelet Count, Storage Time, Safranin*