

**POLITEKNIK KESEHATAN TANJUNGPUR**  
**JURUSAN TEKNOLOGI LABORATORIUM MEDIS**  
**PROGRAM STUDI TEKNOLOGI LABORATORIUM MEDIS**  
**PRODI SARJANA TERAPAN**  
Skripsi, Juni 2024

Kusriadi

**PERBANDINGAN JUMLAH TROMBOSIT PADA *THROMBOCYTE CONCENTRATE* DENGAN DAN TANPA PROSES AGITASI DI UNIT TRANSFUSI DARAH RSUD dr. H. ABDUL MOELOEK PROVINSI LAMPUNG**

xvi + 44 halaman, 5 tabel, 15 gambar, 18 lampiran

**ABSTRAK**

Prosedur penyimpanan merupakan faktor utama yang mempengaruhi kualitas *thrombocyte concentrate*. Secara *invitro thrombocyte concentrate* disimpan pada platelet agitator pada suhu 20°C-24°C selama 5 hari. Penelitian ini bertujuan untuk mengetahui perbedaan jumlah trombosit pada *thrombocyte concentrate* dengan dan tanpa proses agitasi. Jenis penelitian ini bersifat *quasy eksperiment* dengan menggunakan rancangan rangkaian waktu atau *time series design* dengan uji *independent t test*. Penelitian dilakukan pada bulan April 2024. Sampel sebanyak 16 kantong *thrombocyte concentrate* dengan dan tanpa proses agitasi yang disimpan di hari ke-0, ke-1, ke-2, ke-3, ke-4 dan ke-5 dilakukan pemeriksaan jumlah trombosit. Pada uji normalitas data hasil pemeriksaan trombosit didapatkan *p-value* <0,05 maka dinyatakan data terdistribusi tidak normal sehingga harus dilanjutkan dengan uji *Mann-Whitney U test*. Hasil penelitian didapat *p-value* di hari ke-0, ke-1, ke-2, dan ke-3 adalah >0,05 maka dinyatakan tidak ada perbedaan jumlah trombosit dengan dan tanpa proses agitasi. Sedangkan pada hari ke-4 dan ke-5 didapatkan *p-value* <0,05 terdapat perbedaan jumlah trombosit dengan dan tanpa proses agitasi.

Kata Kunci : Jumlah trombosit, *Thrombocyte concentrate*, Agitasi.

Daftar Bacaan : 19 (2014 – 2023)

**TANJUNGPURING MINISTRY OF HEALTH POLYTECHNIC  
DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY  
MEDICAL LABORATORY TECHNOLOGY STUDY PROGRAM  
APPLIED GRADUATE PROGRAM**

*Thesis, June 2024*

Kusriadi

**COMPARISON OF PLATELET COUNTS IN THROMBOCYTE  
CONCENTRATE WITH AND WITHOUT AGITATION PROCESS IN THE  
BLOOD TRANSFUSION UNIT AT RSUD dr. H. ABDUL MOELOEK  
LAMPUNG PROVINCE**

*xvi + 44 Pages, 5 Tables, 15 Picture, 18 Attachment*

**ABSTRACT**

*Storage procedures are the main factor that influences the quality of thrombocyte concentrate. In vitro, thrombocyte concentrate is stored in a platelet agitator at a temperature of 20°C-24°C for 5 days. This study aims to determine the difference in the number of platelets in thrombocyte concentrate with and without the agitation process. This type of research is quasi-experimental in nature using a time series design with an independent t test. The research was conducted in April 2024. Samples of 16 bags of thrombocyte concentrate with and without the agitation process which were stored on the 0th, 1st, 2nd, 3rd, 4th and 5th days were checked for platelet counts. In the normality test of the platelet examination data, the p-value was <0.05, so it was stated that the data was not normally distributed so it had to be continued with the Mann-Whitney U test. The research results showed that the p-value on days 0, 1, 2, and 3 was >0.05, so it was stated that there was no difference in the number of platelets with and without the agitation process. Meanwhile, on days 4 and 5, a p-value <0.05 was found, there was a difference in the number of platelets with and without the agitation process.*

*Keywords : Platelet count, Thrombocyte concentrate, Agitation.*

*Reading List : 19 (2014 – 2023)*