

## Kadar Hemoglobin Dan Jumlah Eritrosit Pada Whole Blood Yang Disimpan Segera Dan 2 Minggu Pada Kantong Darah Donor

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### ABSTRAK

Darah donor dengan antikoagulan CPDA<sup>-1</sup> yang disimpan diluar tubuh (kantong darah) kondisinya sangat berbeda dengan kondisi didalam tubuh. Selama penyimpanan eritrosit akan mengalami perubahan biokimiawi dan struktur. Semakin lama darah disimpan, semakin banyak sel eritrosit yang dihancurkan dan semakin kecil jumlah eritrosit yang dapat bertahan hidup sehingga dapat menurunkan kadar hemoglobin. Tujuan Penelitian mengetahui kadar hemoglobin dan jumlah eritrosit pada whole blood yang disimpan segera dan 2 minggu pada kantong darah donor. Jenis penelitian adalah analitik observasional. Populasi penelitian adalah pendonor pria dan wanita usia 20-35 tahun yang mendonorkan darah di UTD PMI Kota Semarang. Sampel sebanyak 32 orang pendonor. Hasil pemeriksaan dilakukan uji statistik kadar hemoglobin tidak berdistribusi normal dilakukan uji Mann-Whitney dengan nilai signifikansi 0,643 dan jumlah eritrosit berdistribusi normal dilakukan *Independent Sample t Test* dengan nilai signifikansi 0,857 maka hasil keduanya lebih dari 0,05 sehingga dapat disimpulkan bahwa tidak ada perbedaan yang bermakna antara kadar hemoglobin dan jumlah eritrosit pada *whole blood* yang disimpan segera dan 2 minggu pada kantong darah donor.

Kata Kunci: *Whole Blood*, Kadar Hemoglobin, Jumlah Eritrosit

## **Hemoglobin Levels And Erythrocytes Count In Whole Blood Are Stored Immediately And 2 Weeks In Donor Blood Bags**

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### **ABSTRACT**

Blood donors with anticoagulant CPDA<sup>-1</sup> which is saved outside the body (blood bag) the condition is very different from the condition in the body. During storage, the erythrocytes will undergo biochemical and structural changes. The longer of blood is stored, to much erythrocyte cells are destroyed and the smaller the amount of erythrocytes that can survive so as to decrease the hemoglobin. This analytical research study was conducted to determine the result of hemoglobin levels and total erythrocytes in whole blood are stored immediately and 2 weeks in donor blood bags. Types of the research is observational analytics. The study population is male and female donors aged 20-35 years who donate blood in UTD PMI of Semarang. There were 32 sampels. The results of examination was done by statistic test of hemoglobin level not normally distributed by Mann Withney test with significance value 0,643 and the count of erythrocyte normally distributed by *Independent Sample t Test* with significance value 0,857 then the result of both is more than 0,05 so it can be concluded that there is no significant difference between the hemoglobin level ang the erythrocytes count in whole blood that is stored immediately and 2 weeks in the donor bag.

Key words: Whole Blood, Hemoglobin Levels, Erythrocyte Count