

## ABSTRAK

Moch Nanda Adhe Prasetiawan (2021). *Kadar Hemoglobin Pada PRC Selama Simpan Di Utd Pmi Kota Blitar*. Karya Tulis Ilmiah Studi Kasus, Program Studi DIII Teknologi Bank Darah Malang, Jurusan Ilmu Kesehatan Terapan, Politeknik Kesehatan Kemenkes Malang. Pembimbing Tanto Hariyanto, S.Kep, Ns, M.Biomed

Hemoglobin adalah protein utama tubuh manusia yang berfungsi sebagai pengangkut oksigen ke jaringan dan media transport karbondioksida dari jaringan tubuh ke paru-paru. Sebelum dilakukan transfusi darah akan disimpan pada lemari pendingin (refrigerator). Selama proses penyimpanan darah akan mengalami perubahan komponen darah seperti hemoglobin.

Penelitian ini bertujuan untuk mengetahui kadar hemoglobin pada selama 28 hari pada PRC, pemeriksaan kadar hemoglobin dilakukan sebelum disimpan dan selama disimpan pada lemari pendingin. Penelitian ini bersifat deskriptif studi kasus, dilakukan penelitian mulai desember 2020 sampai januari 2021 di UTD PMI kota Blitar, dengan menggunakan tiga sampel yang diambil secara acak. Pemeriksaan kadar hemoglobin menggunakan HB checker dan data disajikan dalam bentuk table dan grafik.

Hasil menunjukkan adanya perubahan kadar hemoglobin pada PRC selama 28 hari. Kadar hemoglobin rata-rata sebelum disimpan 24.4 gr/dl setelah 28 hari kadar hemoglobin rata-rata menjadi 22.3 gr/dl. Kesimpulan dari penelitian ini adalah adanya penurunan kadar hemoglobin PRC selama disimpan 28 hari. Dianjurkan untuk peneliti selanjutnya untuk melakukan penelitian dengan waktu yang lebih lama sehingga dapat diketahui jumlah kadar hemoglobin diakhir masa simpan.

**Kata Kunci : PRC, Kadar Hemoglobin, Masa Simpan**

## **ABSTRACT**

Moch Nanda Adhe Prasetiawan (2021). Hemoglobin Levels in PRC During Storage at Utd Pmi Blitar City. Case Study Scientific Writing, DIII Study Program of Blood Bank Technology Malang, Department of Applied Health Sciences, Health Polytechnic of the Ministry of Health Malang. Advisor Tanto Hariyanto, S.Kep, Ns, M.Biomed.

Hemoglobin is the main protein in the human body which functions as a carrier of oxygen to tissues and a medium for transporting carbon dioxide from the body tissues to the lungs. Before a blood transfusion is carried out, it will be stored in the refrigerator. During the blood storage process changes in blood components such as hemoglobin. This study aims to determine the hemoglobin level for 28 days at PRC, check the hemoglobin levels before storage and while stored in the refrigerator. This research is a descriptive case study, conducted research from December 2020 to January 2021 at the UTD PMI Blitar city, using three samples taken randomly. Examination of hemoglobin levels using the HB checker and the data are presented in tables and graphs.

The results showed a change in hemoglobin levels in PRC for 28 days. The average hemoglobin level before storage was 24.4 g / dl. After 28 days, the average hemoglobin level was 22.3 g / dl. The conclusion of this study is that there is a decrease in the hemoglobin PRC level during storage for 28 days. It is advisable for further researchers to conduct research with a longer time so that the amount of hemoglobin levels can be determined at the end of the shelf life.

**Keywords: PRC, Hemoglobin Levels, Shelf Life**