

# PERBANDINGAN KADAR HEMATOKRIT SEBELUM DAN SESUDAH DONOR DI UNIT DONOR DARAH PMI KABUPATEN KLATEN TAHUN 2023

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## INTISARI

**Latar Belakang:** Donor darah merupakan proses pengambilan darah dari pendonor melalui pembuluh darah dengan volume tertentu. hematokrit adalah presentase jumlah sel darah merah atas jumlah keseluruhan darah. Nilai normal untuk laki-laki 40-48% dan untuk wanita 37-43%. Nilai hematokrit dapat digunakan sebagai tes skrining sederhana untuk anemia dan polistemia dan sebagai referensi kalibrasi untuk metode otomatis hitung sel darah dan ke akuratan pengukuran hemoglobin.

**Tujuan Penelitian:** Mengetahui perbandingan kadar hematokrit sebelum dan sesudah donor di UDD PMI Kabupaten Klaten tahun 2023.

**Metode Penelitian:** Penelitian ini merupakan penelitian deskriptif kuantitatif dengan pendekatan *cross sectional*.

**Hasil Penelitian:** Karakteristik pendonor darah berdasarkan jenis kelamin didominasi oleh laki-laki yaitu 23 responden (69,7%), karakteristik usia sebagian besar pada kelompok usia dewasa akhir sebanyak 13 responden (39,4%). Rentang rata-rata kadar hematokrit sebelum donor antara 36% - 47% dan rentang rata-rata sesudah donor antara 36% - 44%. penurunan kadar hematokrit setelah donor yaitu 3% sebanyak 6 (46,15%) responden sedangkan yang mengalami peningkatan kadar hematokrit setelah donor sejumlah 6 (18,18%) pada rentang 2% -3%.

**Kesimpulan:** Terjadinya perubahan atau perbedaan kadar hematokrit sebelum dan sesudah donor darah baik dari karakteristik jenis kelamin maupun usia responden dimana angka perubahan 19 (57,57%) responden yang mengalami penurunan maupun kenaikan setelah donor darah.

**Kata Kunci:** Donor darah, Kadar Hematokrit, Sebelum dan Sesudah donor

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## COMPARATIVE OF HEMATOCRIT LEVELS BEFORE AND AFTER BLOOD AT KLATEN REGENCY RED CROSS BLOOD DONATION UNIT IN 2023

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### ABSTRACT

**Background:** Blood donation is the process of taking blood from donors through blood vessels with a certain volume. Hematocrit is the percentage of red blood cell count over the total blood count. Normal values for males 40-48% and for females 37-43%. The hematocrit value can be used as a simple screening test for anemia and polystemia and as a calibration reference for automated methods of blood cell count and to accurate measurement of hemoglobin.

**Objectives:** Determine the comparison of hematocrit levels before and after donors in UDD PMI Klaten Regency in 2023.

**Methodes:** This research is a quantitative descriptive research with a cross sectional approach.

**Results:** Blood donor characteristics based on gender are dominated by men, namely 23 respondents (69.7%), age characteristics are mostly in the adult age group of late 36-45 years as many as 13 respondents (39.4%). The average range of hematocrit levels before donation ranged from 36% - 47% while after donors the average range was around 36% - 44%, which experienced a decrease in hematocrit levels after donor, which was 3% as many as 6 (46.15%) respondents while those who experienced an increase in hematocrit levels after donation in 6 (18,18%) the range of 2% -3%.

**Conclusion:** There was a change or difference in hematocrit levels before and after blood donation both from the sex and age characteristics of respondents where the change rate was 19 (57.57%) respondents who experienced a decrease or increase after blood donation.

**Keywords:** *Blood donor, Hematocrit level, Before and after donation*

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