

KADAR TROMBOSIT PASIEN SEBELUM DAN SESUDAH TRANSFUSI THROMBOCYTE CONCENTRATE DI RSUD KOTA YOGYAKARTA TAHUN 2024

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INTISARI

Latar Belakang: Trombositopenia adalah suatu kondisi medis yang ditandai oleh rendahnya jumlah trombosit dalam darah dan sering kali membutuhkan transfusi *Thrombocyte Concentrate* (TC) untuk mencegah komplikasi perdarahan. Di RSUD Kota Yogyakarta tingkat pemakaian TC relatif tinggi sebanyak 1.125 kantong di tahun 2023 dan sebanyak 1.105 kantong di tahun 2024, namun belum ada penelitian terdahulu mengenai efektivitasnya terhadap peningkatan kadar trombosit.

Tujuan Penelitian: Mengetahui gambaran kadar trombosit pada pasien trombositopenia sebelum dan sesudah transfusi TC di RSUD Kota Yogyakarta tahun 2024.

Metode Penelitian: Penelitian deskriptif kuantitatif menggunakan data sekunder. Sampel sebanyak 48 pasien trombositopenia yang menerima transfusi TC selama tahun 2024.

Hasil Penelitian: Mayoritas pasien berusia dewasa (19-59 tahun) sebanyak 24 orang (50%), berjenis kelamin laki-laki berjumlah 26 orang (54,2%), bergolongan darah O rhesus positif sebanyak 19 orang (39,6%), dan memiliki diagnosa terbanyak yaitu anemia 14 orang (29,2%). Rata-rata kadar trombosit sebelum transfusi adalah 24.000/uL dan meningkat menjadi 54.000/uL setelah transfusi TC. Sebanyak 45 pasien (93,75%) mengalami peningkatan kadar trombosit, sedangkan 3 pasien (6,25%) mengalami penurunan.

Kesimpulan: Transfusi TC paling sering terjadi pada pasien trombositopenia dengan usia dewasa, berjenis kelamin laki-laki, golongan darah O rhesus positif dan berdiagnosa anemia. Transfusi TC pada pasien trombositopenia di RSUD Kota Yogyakarta terbukti efektif, ditunjukkan dengan 93,75% pasien mengalami peningkatan setelah menerima transfusi.

Kata Kunci: Trombositopenia, Kadar Sebelum dan Sesudah, Transfusi *Thrombocyte Concentrate*, RSUD kota Yogyakarta

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PLATELET LEVELS IN PATIENTS BEFORE AND AFTER THROMBOCYTE CONCENTRATE TRANSFUSION AT RSUD KOTA YOGYAKARTA IN 2024

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ABSTRACT

Background: Thrombocytopenia is a medical condition characterized by a low platelet count in the blood and often requires Thrombocyte Concentrate (TC) transfusion to prevent bleeding complications. At RSUD Kota Yogyakarta, the rate of TC is relatively high, totaling 1,125 bags in 2023 and 1,105 bags in 2024, however there has been no prior research on its effectiveness in increasing platelet levels.

Objective: To determine the platelet count profile of thrombocytopenic patients before and after TC transfusion at RSUD Kota Yogyakarta in 2024.

Methods: This study is a quantitative descriptive study using secondary data. The sample consisted of 48 thrombocytopenic patients who received TC transfusions in 2024.

Result: The majority of patients were adults (19-59 years) totaling 24 individuals (50%), male patients accounted for 26 individuals (54,2%), with the most common blood type being O positive in 19 individuals (39,6%), and the most frequent diagnosis was anemia in 14 individuals (29,2%). The average platelet count before transfusion was 24.000/uL and increased to 54.000/uL after Tc transfusion. A total of 45 patients (93,75%) experienced an increase in platelet levels, while 3 patients (6,35%) experienced a decrease.

Conclusion: TC transfusions most frequently occurred in thrombocytopenia patients who were adults, male, had blood type O positive rhesus factor, and were diagnosed with anemia. TC transfusion for thrombocytopenia patients at RSUD Kota Yogyakarta proved to be effective, as 93,75% of patients showed an increase in platelet count after receiving the transfusion.

Keywords: Trombocytopenia, Before and After Platelet Level, *Thrombocyte Concentrate* Transfusion, RSUD kota Yogyakarta

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