

POLITEKNIK KESEHATAN KEMENKES TANJUNGPUR
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Perbandingan Kadar TIBC (*Total Iron Binding Capacity*) Pre dan Post Transfusi pada Penderita Gagal Ginjal Kronik di RSUD Dr. H. Abdul Moeloek Provinsi Lampung

XVII + 32 Halaman + 5 Tabel + 2 Gambar + 15 Lampiran

ABSTRAK

Gagal ginjal kronik merupakan penyakit progresif yang sering disertai anemia, sehingga transfusi darah merupakan salah satu terapi yang umum dilakukan. Transfusi darah dapat memengaruhi status besi dalam tubuh, salah satunya terlihat melalui kadar *Total Iron Binding Capacity* (TIBC). Penelitian ini bertujuan untuk mengetahui perbedaan kadar TIBC sebelum dan sesudah transfusi darah pada pasien gagal ginjal kronik. Jenis penelitian ini merupakan penelitian analitik dengan desain penelitian cross-sectional. Penelitian ini dilakukan pada bulan Mei 2025. Sampel pada penelitian ini berjumlah 24 sampel terdiri dari pre dan post transfusi. Data dianalisis menggunakan Paired T-test. Hasil penelitian menunjukkan bahwa rata-rata kadar TIBC sebelum transfusi sebesar 325,00 µg/dL dan sesudah transfusi sebesar 300,83 µg/dL, dengan nilai p sebesar 0,195 ($p > 0,05$), sehingga dapat disimpulkan bahwa tidak terdapat perbedaan yang signifikan secara statistik antara kadar TIBC sebelum dan sesudah transfusi. Evaluasi status besi pada pasien gagal ginjal kronik sebaiknya dilakukan secara menyeluruh dengan mempertimbangkan parameter tambahan seperti serum ferritin, dan transferrin.

Kata Kunci : Gagal Ginjal Kronik, TIBC, Transfusi

Daftar Bacaan : 50 (2003-2024)

**TANJUNGKARANG HEALTH POLYTECHNIC
MEDICAL LABORATORY TECHNOLOGY STUDY PROGRAM APPLIED
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***Comparison of TIBC (Total Iron Binding Capacity) Levels Pre and Post
Transfusion in Chronic Kidney Failure Patients at Dr. H. Abdul Moeloek
Regional Hospital, Lampung Province***

XVII + 32 Pages + 5 Tables + 2 Pictures + 15 attachment

ABSTRACT

Chronic kidney failure is a progressive disease that is often accompanied by anemia, so blood transfusion is one of the common therapies. Blood transfusion can affect iron status in the body, one of which is seen through the Total Iron Binding Capacity (TIBC) levels. This study aims to determine the difference in TIBC levels before and after blood transfusion in patients with chronic kidney failure. This type of research is an analytical study with a cross-sectional research design. This study was conducted in May 2025. The sample in this study amounted to 24 samples consisting of pre and post transfusion. Data were analyzed using the Paired T-test. The results showed that the average TIBC level before transfusion was 325.00 $\mu\text{g} / \text{dL}$ and after transfusion was 300.83 $\mu\text{g} / \text{dL}$, with a p value of 0.195 ($p > 0.05$), so it can be concluded that there is no statistically significant difference between TIBC levels before and after transfusion. Evaluation of iron status in patients with chronic kidney failure should be carried out comprehensively by considering additional parameters such as serum ferritin, and transferrin..

*Keyword : Chronic Kidney Failure, Transfusion, TIBC
Reading List : 50 (2003-2024)*