

POLITEKNIK KESEHATAN KEMENKES TANJUNGPINANG
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**Perbandingan Kadar Hemoglobin dan Feritin pada Pasien
Kanker Payudara yang Menjalani Kemoterapi antara Siklus 3
dan 4 pada periode I**

XVI + 49 halaman, 5 gambar, 6 tabel, dan 17 lampiran

ABSTRAK

Kanker payudara merupakan penyakit yang ditandai dengan tumbuhnya sel abnormal di dalam tubuh. Pada pasien kanker payudara kadar Hemoglobin biasanya mengalami penurunan karena efek obat kemoterapi salah satunya *Cyclophosphamide* yang dapat menghambat sintesis eritropoesis yang menyebabkan penurunan zat besi sedangkan feritin sebagai indikator kadar cadangan besi dalam tubuh. Penelitian ini bertujuan menganalisis perbandingan kadar hemoglobin dan feritin pasien kanker payudara yang menjalankan kemoterapi antara siklus 3 dan 4 pada periode 1. Jenis penelitian ini merupakan analitik dengan desain deskriptif komparatif. Penelitian dilakukan dari bulan Mei-Juni 2025. Sampel penelitian ini sebanyak 30 responden yang memenuhi kriteria. Hasil penelitian didapatkan rata-rata kadar Hb siklus 3; 11,45 g/dL sedangkan rata-rata siklus 4; 10,94 g/dL sedangkan rata-rata kadar feritin siklus 3; 149,53 ng/mL dan rata-rata kadar feritin siklus 4; 271,66 ng/mL. Hasil analisa data uji *Mann-Whitney* kadar Hb didapatkan $p=0,179$ dan feritin $p=0,201$ yang berarti tidak ada perbedaan antara siklus 3 dan 4 periode 1 pasien kanker payudara yang menjalankan kemoterapi.

Kata kunci : ELISA, Hemoglobin, Feritin, Kanker Payudara
Daftar bacaan : 40 (1954-2022)

TANJUNGKARANG HEALTH POLYTECHNIC
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Comparison of Hemoglobin and Ferritin Levels in Breast Cancer Patients Undergoing Chemotherapy between Cycle 3 and 4 in period I

XVI + 49 pages, 5 pictures, 6 tabel, and 17 attachment

ABTRACT

Breast cancer is a disease characterized by the growth of abnormal cells in the body. In breast cancer patients, hemoglobin levels usually decrease due to the effects of chemotherapy drugs, one of which is Cyclophosphamide, which can inhibit erythropoiesis synthesis, leading to a decrease in iron levels, while ferritin serves as an indicator of iron reserves in the body. This study aims to analyze the comparison of hemoglobin and ferritin levels in breast cancer patients undergoing chemotherapy between cycles 3 and 4 during period 1. The type of this research is analytical with a descriptive comparative design. The research was conducted from May to June 2025. The sample for this study consisted of 30 respondents who met the criteria. The research results showed an average Hb level of 11.45 g/dL in cycle 3; while the average in cycle 4; was 10.94 g/dL. The average ferritin level in cycle 3; was 149.53 ng/mL, and in cycle 4; it was 271.66 ng/mL. The Mann-Whitney test analysis for Hb levels yielded $p=0.179$ and for ferritin $p=0.201$, indicating no difference between cycles 3 and 4 in the first period of breast cancer patients undergoing chemotherapy.

Keywords : Breast Cancer, ELISA, Haemoglobin, Ferritin
Reading List : 40 (1954-2022)