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Andrean Sulaiman Putra

Perbandingan Kadar Hemoglobin dan Feritin pada Pasien Kanker Payudara yang Menjalani Kemoterapi antara Siklus 1 dan 2 pada periode I

xvii + 46 halaman, 5 tabel, 7 gambar, dan 10 lampiran

ABSTRAK

Kanker payudara merupakan penyakit yang ditandai dengan tumbuhnya sel abnormal di dalam tubuh salah satunya payudara. Pada pasien kanker payudara kadar Hemoglobin biasanya mengalami penurunan karena efek obat kemoterapi salah satunya *Cyclophosphamide* yang dapat menghambat sintesis eritropoiesis 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 1 dan 2 pada periode 1. penelitian analitik dengan desain deskriptif komparatif. Penelitian dilakukan dari bulan Juni-Juli 2024. Sampel penelitian ini sebanyak 20 responden yang memenuhi kriteria. Hasil penelitian dengan metode ELISA didapatkan rata-rata kadar Hb siklus 1 11,39. g/dL dengan nilai terendah sebesar 9,20 g/dL dan tertinggi sebesar 13,70 g/dL sedangkan rata-rata siklus 2 10,38 g/dL dengan nilai terendah sebesar 8,00g/dL dan tertinggi 13,20 ng/mL sedangkan rata-rata kadar feritin siklus 1 420,16 ng/mL dengan nilai terendah 105,50 ng/mL dan tertinggi 800,00 ng/mL dan rata-rata kadar feritin siklus 2 234,77 ng/mL dengan nilai terendah 65,50 ng/mL dan tertinggi 795,20 ng/mL. Hasil analisa data uji *Mann-Whitney* kadar Hb didapatkan $p=0,171$ dan feritin $p=0,071$ yang berarti tidak ada perbedaan antara siklus 1 dan 2 periode pasien kanker payudara yang menjalankan kemoterapi.

Kata kunci : kanker payudara, Hb, Feritin, ELISA

Daftar bacaan : 43 (1993-2022)

**TANJUNGKARANG POLYTECHNIC OF HEALTH
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Andrean Sulaiman Putra

Comparison of Hemoglobin and Ferritin Levels in Breast Cancer Patients Undergoing Chemotherapy between Cycle 1 and 2 in period I

xvii + 46 pages, 5 tables, 7 figures and 10 attachments

ABSTRACT

Breast cancer is a disease characterized by the growth of abnormal cells in the body, one of which is the breast. 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 which causes a decrease in iron while ferritin as an indicator of iron reserve levels in the body. This study aims to analyze the comparison of hemoglobin and ferritin levels of breast cancer patients who undergo chemotherapy between cycles 1 and 2 in period 1. analytical research with a comparative descriptive design. The research was conducted from June-July 2024. The sample of this study were 20 respondents who met the criteria. The results of the study with the ELISA method obtained an average Hb cycle 1 level of 11.39. g/dL with the lowest value of 9.2 g/dL and the highest of 13.7 g/dL while the average cycle 2 10.38 g/dL with the lowest value of 8.g/dL and the highest of 13.2 ng/mL while the average ferritin levels cycle 1 420.16 ng/mL with the lowest value of 105.50 ng/mL and the highest of 800.00 ng/mL and the average ferritin levels cycle 2 234.77 ng/mL with the lowest value of 65.50 ng/mL and the highest of 795.20 ng/mL. The results of the Mann-Whitney test data analysis obtained Hb levels p=0.171 and ferritin p=0.071 which means there is no difference between cycles 1 and 2 of breast cancer patients undergoing chemotherapy.

Keywords : breast cancer, Hb, Ferritin, ELISA

Reading List : 43 (1993-2022)