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Body weight and hematological parameter change in advanced breast cancer following adjuvant chemotherapy

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Background & Aim: Body weight change commonly occurs in patients who receive chemotherapy. There was lack of data on weight loss and hematological parameter changes following adjuvant chemotherapy. This study was to evaluate the body weight and hematological parameter changes following adjuvant chemotherapy in advanced breast cancer.

Methods: This prospective observational study included 50 advanced breast cancer (Stage IIIB) subject who were receiving Doxorubicin and Cyclophosphamide regiment. Body weight, Body Mass Index (BMI), Body Surface Area (BSA) and hematological parameter were measured before, after first and second cycles of chemotherapy.

Results: There was a significant decrease in body weight, BMI and BSA before and after first and second cycles of chemotherapy, from 60.06 to 58.69 ($p < 0.05$), 25.66 to 25.05 ($p < 0.05$) and 1.58 to 1.57 ($p < 0.05$), respectively. Hemoglobin and total lymphocytes count were also significantly decrease after first and second cycles of chemotherapy, 12.04 to 10.97 and 2,235.61 to 1,894.82/mm³ ($p < 0.05$), respectively. There is no significant decrease in total leukocyte and absolute neutrophil count ($p = 0.06$ and $p = 0.568$, respectively).

Conclusion: Body weight, BMI and BSA have significantly decreased after first and second cycles of chemotherapy. Hemoglobin and TLC levels also have significantly decreased but there is no significant decrease in leukocyte and ANC level.

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