

THE DIFFERENCE OF LYMPHOCYTE AMOUNT BEFORE AND AFTER CHEMOTHERAPY ON CA MAMMAE PATIENTS

Rini Puji Astuti¹, Andri Sukeksi², Harun Nurrachmat³

1. Study Program D IV Health Analyst Faculty of Nursing and Health University of Muhammadiyah Semarang.
2. Clinical Pathology Laboratory Faculty of Nursing and Health Sciences University of Muhammadiyah Semarang
3. Clinical Pathology Laboratory RSUD Tugurejo Semarang.

ABSTRACT

Breast cancer (*Carcinoma mammae*) is a cancer of breast tissue. *CaMammae* occurs because the cell condition has lost in control and its normal mechanism, so that it experiences abnormal growth, fast and uncontrolled. Lymphocytes have an important role in the occurrence of cancer cell immunity that suppresses the maturation from a tumor. Cancer cells circulate through the tissue and form new cells. Cancer cells are antigenic on immune system of human body so that it will cause the immune responses which are cellular and humoral. Low lymphocyte amount are associated with the bad patient's condition. Chemotherapy is expected to increase lymphocyte amount, because cancer patients with normal lymphocyte would have better survival than patients with low lymphocyte amount. The giving of chemotherapy to patients with breast cancer makes the body's immune system better. It is expected that cancer cells on patients who are weaken the general condition and suppress the immune system are eliminated, so that lymphocyte production as forming of antibody will increase again. The research aimed to know the difference of lymphocyte amount before and after chemotherapy on *camammae* patients. The research type is analytic, research was done using venous blood sample. The examination of lymphocyte amount was done. The research result was concluded: Lymphocyte amount before chemotherapy averaged 22,56%, and standard intersections were 5.08. Lymphocyte count after chemotherapy averaged 24,51%, and standard deviation 4,53. There was no significant difference in lymphocyte amount before and after chemotherapy ($p > 0,05$).

Keywords: lymphocyte amount, *camammae*, chemotherapy