ABSTRAK

HUBUNGAN ANTARA RASIO NEUTROFIL LIMFOSIT, JUMLAH LEUKOSIT, DAN NEUTROFIL ABSOLUT DENGAN STADIUM KANKER PAYUDARA DI RSUD PROF. DR. MARGONO SOEKARJO PURWOKERTO PERIODE JANUARI-DESEMBER TAHUN 2021

Kanker payudara merupakan kanker paling mematikan bagi wanita di seluruh dunia. Secara progresif, mortalitas kanker payudara meningkat seiring dengan peningkatan stadium dan tingkat metastasis. Jumlah leukosit, *Absolute neutrophil count* (ANC), *Neutrophil-to-lymphocyte ratio* (NLR) diketahui menjadi penanda inflamasi dan prognostik kanker payudara. Penelitian ini bertujuan untuk mengetahui hubungan antara NLR, leukosit dan ANC dengan stadium kanker payudara di RSUD Prof. Dr. Margono Soekarjo Purwokerto. Penelitian ini menggunakan metode observasional analitik dengan pendekatan *cross sectional*. Subjek penelitian ini berjumlah 59 pasien, diambil data leukosit, ANC dan NLR melalui instalasi rekam medis dengan menggunakan teknik total sampling dari bulan Januari-Desember tahun 2021. Data dianalisis menggunakan *chi-square*. Hasil menunjukkan rerata usia 59 pasien adalah 52 tahun. Analisis hubungan menunjukkan hasil yang signifikan ANC terhadap stadium kanker payudara (P=0,027), sementara jumlah leukosit (P=0,365), dan NLR (P=0,153) ditemukan tidak berhubungan signifikan. Dari penelitian ini dapat disimpulkan bahwa didapatkan hubungan antara ANC terhadap stadium kanker payudara pada pasien kanker payudara di RSUD Prof. Dr. Margono Soekarjo.

Kata kunci: Kanker payudara, Jumlah leukosit, *Absolute neutrophil count* (ANC), *Neutrophil-to-lymphocyte ratio* (NLR)

ABSTRACT

THE RELATIONSHIP BETWEEN THE RATIO OF NEUTROPHILS, LYMPHOCYTES, NUMBER OF LEUCOCYTES, AND ABSOLUTE NEUTROPHILS WITH BREAST CANCER STADIUM IN RSUD PROF. DR. MARGONO SOEKARJO PURWOKERTO JANUARY-DECEMBER PERIOD THE YEAR 2021

Breast cancer is the deadliest cancer for women worldwide. Progressively, breast cancer mortality increases with the increase in the stage and level of metastasis. Leukocyte count, Absolute neutrophil count (ANC), and Neutrophil-to-lymphocyte ratio (NLR) are known to be inflammatory and prognostic markers of the growth and developement of breast cancer. This study aims to determine the relationship between NLR, leukocytes, and ANC with breast cancer stage at Margono Soekarjo Purwokerto District General Hospital. This study used an analytical observational method with a cross sectional approach. The subjects of this study were 59 patients whosee; a {eukocyte, ANC, and NLR data were taken from the installation of medical records using a total sampling technique from January-December 2021. Data were analyzed using chi-square. The results showed that the average age of 59 patients was 52 years. Analysis of the relationship showed significant results of ANC on the breast cancer stage (P=0.027), while leukocyte count (P=0.365) and NLR (P=0.153) were not found to be significantly related. From this study, it can be concluded that there is a relationship between ANC and breast cancer stage in breast cancer patients at Prof. Dr. Margono Soekarjo District General Hospital.

Keyword: *Breast cancer, WBC count, Absolute neutrophil count (ANC), Neutrophil-to-lymphocyte ratio (NLR)*