

# Hubungan Rasio Neutrofil terhadap Limfosit dengan Skor Gleason pada Pasien Kanker Prostat di Rumah Sakit Adam Malik Medan = Correlation Between Neutrophyl to Lymphocyte Ratio with Gleason Score In Patients with Prostate Cancer

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## Abstrak

Kanker prostat adalah angka kematian terkait kanker tertinggi kedua pada pria setelah kanker paru-paru. Neutrophyl to lymphocyte ratio (NLR), salah satu parameter inflamasi, ditemukan sebagai faktor prognostik pada beberapa jenis tumor padat, seperti kanker prostat. Penelitian ini bertujuan untuk menilai ada tidaknya hubungan antara NLR dengan hasil skor Gleason pasien biopsi adenokarsinoma prostat di RSUD Haji Adam Malik Medan. Sebanyak 121 pasien menjalani biopsi prostat dari awal Januari 2013 - Desember 2015 di RS Adam Malik dan 30 tidak dikeluarkan. Data dari 91 pasien kemudian diambil meliputi umur, data hematologi pra biopsi, pemeriksaan PSA awal, estimasi berat prostat, dan skor gleason dari hasil biopsi. Data diolah dengan SPSS versi 22. Ditemukan pasien dengan usia rata-rata 68,34 tahun dengan rentang usia 52-85 tahun. Tidak ada hubungan bermakna antara NLR dan TBP dengan  $r = 0,077$  dan  $p = 0,469$  serta tidak ada hubungan bermakna antara NLR dan PSA dengan  $r = 0,072$  dan  $p = 0,496$ . Ada hubungan yang signifikan antara rasio neutrofil / limfosit dengan hasil pemeriksaan gleason score pada pasien kanker prostat di RSUP Haji Adam Malik. Diperlukan penelitian lebih lanjut, apakah rasio neutrofil / limfosit dapat digunakan untuk memprediksi skor gleason score pada pasien suspek kanker prostat

.....Prostate cancer is the second highest cancer-related mortality rate in men after lung cancer. Neutrophyl to lymphocyte ratio (NLR), one of the inflammatory parameters, is found as a prognostic factor in several types of solid tumors, such as prostate cancer. This study aims to assess whether there is a correlation between NLR with the results of Gleason score of patients with prostate adenocarcinoma biopsy at Haji Adam Malik Hospital Medan. A total of 121 patients underwent a prostate biopsy from early January 2013 - December 2015 at Adam Malik Hospital and 30 were not excluded. Data from 91 patients were then taken, including age, hematologic data pre biopsy, PSA on initial examination, prostate weight estimation, and gleason score from biopsy results. The data is processed with SPSS version 22. We found patients with a mean age of 68.34 years with an age ranging from 52 to 85 years. There is no significant correlation between NLR and TBP with  $r = 0.077$  and  $p = 0.469$  and also there is no significant correlation between NLR and PSA with  $r = 0.072$  and  $p = 0.496$ . There is a significant correlation between the ratio of neutrophils/lymphocytes with the results of gleason score examination in prostate cancer patients at Haji Adam Malik Hospital. Further studies are needed, whether the ratio of neutrophils / lymphocytes can be used to predict the gleason score score in patients with suspected prostate cancer.