

عنوان مقاله:

Age Limit of Neutrophil-to-Lymphocyte Ratio and Platelet-to-Lymphocyte Ratio in Correlation of Bladder Cancer Tumor Stage and Grade

محل انتشار:

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خلاصه مقاله:

Introduction: This study was conducted to investigate the predictive value of NLR and PLR with staging and grading of bladder tumors in Iran for the first time; as well as producing comprehensive data to attain defined cut-offs. **Methods:** The medical records of ۴۵۴ patients between ۲۰۱۶ and ۲۰۲۲ have been collected and diagnosed with bladder cancer by cystoscopy and transurethral resection of bladder tumor (TURBT). Clinical and demographic parameters including age, weight, diabetes, smoking, opium usage, and hematuria were registered. The stage of BC was defined based on the results of physical exams, biopsies, and imaging tests. **Results:** The study comprised ۳۹۳ males and ۶۱ females ranging from ۲۸ to ۹۷ years old. The cut-off of NLR as a predictor of grade was ۳.۰۹ and ۳.۷۸ for the stage, which was ۱۰۰.۸ and ۱۰۹.۶ for PLR respectively. Taller people had lower PLR. There was a relationship between PLR and smoking with non-smokers having significantly higher levels of PLR (P-values=۰.۰۳۹ and ۰.۰۲۵ for grade and stage respectively). Overall NLR (AUC=۷۱.۴ and ۷۲.۴% for grade and stage respectively) and PLR (۷۰.۶ and ۷۳.۸% for grade and stage respectively) have shown predictive value for stage and grade of BC in patients younger than ۶۵. **Conclusion:** Our findings suggest that PLR and NLR can be reliable predictors of the stage and grade of BC in patients under ۶۵ years old, however, their predictor values increase when data are stratified. Higher NLR was associated with opium usage and non-O blood type.

کلمات کلیدی:

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