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NLR and PLR as a predictive factor of response to sequential therapy TPF followed by concurrent chemoradiotherapy hypopharyngeal carcinoma

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Proinflammatory markers such as neutrophil/lymphocyte ratio (NLR) and platelet lymphocyte ratio (PLR) have been studied as poor prognostic factors in various types of cancer. There is a lack of studies on predictors of response to sequential therapy TPF followed by concurrent chemoradiotherapy in locally advanced hypopharyngeal squamous cell carcinoma.

Aim: Thus, in this study, we have evaluated whether these markers could serve as prognostic predictors of response to treatment.

Patients and methods: Fifty-three patients with locally advanced hypopharyngeal squamous cell carcinoma stage III and IV a&b treated with sequential therapy 3 cycles of neoadjuvant TPF followed by concurrent chemoradiotherapy were recruited. Median values were used to calculate NLR and PLR from peripheral blood count. Univariate and multivariate analyses were used.

Results: Significant association of higher NLR ≥ 2.5 and higher PLR ≥ 140 was found with older age, lower performance status, tumor stage 4, regional lymph nodes 2 and 3 along with stage IV. Data from univariate analysis showed that overall response was significantly higher in patients with NLR < 2.5 and PLR < 140 . Univariate analysis of both NLR and PLR indicated significant association with poor disease outcome; however, multivariate analysis showed only high NLR was significantly associated with poor treatment outcome.

Conclusions: Both NLR and PLR were significantly associated with poor overall survival, disease free survival and progression free survival. High NLR and PLR are associated with tumor aggressiveness, poor treatment response to sequential therapy TPF, followed by concurrent chemoradiotherapy, shorter overall survival, disease free survival and progression free survival

Biography:

Lamiss Mohamed Abd Elaziz has completed her PhD from Tanta University and currently, she is working as an Assistant Professor. She has published more than 9 papers in reputed journals and has been serving as an Editorial Board Member of repute.