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Investigating preoperative hematologic markers for the prognosis of ovarian cancer surgical outcome

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Objective: The current study aimed at assessing the association between neutrophil-lymphocyte ratio (NLR) and platelet lymphocyte ratio (PLR) for the prognosis of the surgical outcome of epithelial ovarian cancer (EOC).

Methods: EOC patients' medical records of surgical operations between January, 2005 and December, 2015 were reviewed and their data of clinicopathological complete blood counts (CBCs) and surgical outcomes were collected. To predict the surgical outcomes, PLR and NLR optimal predictive values were determined and then compared with each other.

Results: A statistically significant relation was found between surgical outcomes and NLR and PLR ($p < 0.001$ and $p < 0.001$), for which a new cutoff point was gained (PLR: 192; NLR: 3). The sensitivity and specificity was 0.74 and 0.67, respectively for PLR and 0.74 and 0.58, respectively for NLR.

Conclusion: NLR and PLR seem to be useful methods for the prediction of surgical outcomes in patients with EOCs. Enhancements of NLR and PLR as prognostic factors proved to be beneficial for poor surgical outcomes. Moreover, PLR increase showed to further help in the prognosis of EOC suboptimal debulking.

Biography

Mahdiss Mohamadianamiri completed her graduation in Gynecology in the year 2009. She completed her fellowship in Oncology from Shahid Beheshti Medical University in 2016. Currently, she is serving as Assistant Professor in Iran Medical University.

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