

عنوان مقاله:

The Role of Preoperative Leukocytosis, Anemia, and Thrombocytosis on Stages and Grades of Endometrial Cancers Prognosis

محل انتشار:

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خلاصه مقاله:

Background & Objective: Anemia, thrombocytosis, and leukocytosis, are commonly found in a variety of malignancies. The prognostic role of preoperative leukocytosis, anemia, and thrombocytosis on stages and grades of endometrial cancer (EC) in women undergoing surgery was the subject of this study. **Materials & Methods:** In this cross-sectional study, 105 women suffering from EC at Babol Ayatollah Rouhani Hospital from 2011 to 2018 were considered. Anemia, thrombocytosis, and leukocytosis were defined as prognostic factors. Then, the patients were placed at stages I, II, III, and IV, and ECs were graded as well, moderately and poorly differentiated or undifferentiated. SPSS 22 software, Chi-square, analysis of variance (ANOVA), and receiver operating characteristic (ROC) were used for statistical analysis ($p < 0.05$). **Results:** Higher rates of leukocytosis (54.3%), anemia (47.4%), and thrombocytosis (66.7%) were detected in tumor grades III, II, and III, respectively. A higher rate of leukocytosis (51.4%), anemia (60.5%), and thrombocytosis (51.9%) were reported in tumor stages III, I, and III, respectively. The relationship between tumor grade and tumor stage with leukocytosis and thrombocytosis was statistically significant ($p < 0.001$). The white blood cell (WBC) sensitivity (70%) and specificity (70%), Hb sensitivity (37%) and specificity (39%), and platelets sensitivity (73%) and specificity (74%) were determined. There was a significant relationship between levels below the 3-variable curve and tumor stage with WBC ($p < 0.001$) and platelet ($p < 0.001$). **Conclusion:** Preoperative leukocytosis and thrombocytosis are related to the severity, stages, and grades of EC. Both of them have a prognostic role in women suffering from EC.

کلمات کلیدی:

Endometrial Cancer, Leukocytosis, Thrombocytosis, Anemia

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