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P105. SERUM LEVELS OF IL-6, IL-8 AND CRP AS PROGNOSTIC FACTORS IN EPITHELIAL OVARIAN CANCER

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Context: Evidence suggests an etiologic role for inflammation in ovarian carcinogenesis and heterogeneity between tumor subtypes.

Objective: The purpose of the study was to investigate the prognostic significance of serum IL-6, IL-8 and CRP levels for DFS and OS in a cohort of 118 EOC patients.

Methods: Quantification of serum protein levels was performed using an ELISA methodology.

Patient(s): A total of 118 patients with EOC were included in this study. The serum from 64 healthy volunteers served as controls. At a median follow-up of 24.63 months (range 0.84-58.16), 62 patients had died as a consequence of cancer progression.

Intervention(s): ROC curves were constructed to determine the optimal sensitivity and specificity of IL-6, IL-8 and CRP levels for the purpose of outcome prediction.

Main Outcome: Pretreatment levels of CRP in the EOC group were significantly higher than in the controls (median-9.51, range: 0.3-129.2 mg/l vs. median-1.2, range: 0.1-11.5 mg/l) (p=0.001). In the 64 volunteer blood donors, the serum IL-6 concentration ranged between 1.1-12.3 pg/ml (median-2.9) whereas the serum IL-6 concentrations in EOC patients ranged between 3.4-62.6 pg/ml (median-11.5) (p<0.001). Pretreatment serum IL-8 levels in patients with EOC (median-29.8, range: 16.4-105.3 pg/ml) were significantly higher in comparison with the controls (median-9.3, range: 4.3-32.4 pg/ml) (p<0.001).

Measure(s): The OS and DFS optimal cut-off values for IL-6, IL-8 and CRP were as follows: 12.38 pg/ml, 32.19 pg/ml and 11.19 pg/ml.

Result(s): Kaplan-Meier survival curves showed that patients with EOC, and with high IL-6, IL-8 and CRP levels had substantially shorter OS (p=0.003, p=0.035 p=0.046) and DSF (p<0.001, p=0.026 and p=0.043), than patients with low levels of IL-6, IL-8 and CRP.

Conclusions: Preoperative serum IL-6, IL-8, and CRP levels seem promising in distinguishing EOC patients from healthy women.

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