MAST CELL DANSITY AND MICROVASCULER DANSITY IN COLORECTAL CANCER IMPORTANCE OF VEGF, EGFR, P53, KI-67, CEA EXPRESSION IN PROGNOSIS

SUMMARY

Today, most of the studies focus on investigating new molecular and biochemical markers that define prognosis and predict tumor resistance to treatments. Novel prognostic markers manifested for this aim but none of them is competent alone. This study aimed to investigate the mast cell density, presence of p53 mutation and prognostic value of Ki-67, vascular endothelial growth factor, epidermal growth factor receptor, carcinoembriyonic antigen and micro vessel thickness in the patients with histopathologically diagnosed colorectal cancer.

The study included 46 patient who underwent bowel resection for colorectal cancer at ADÜ Medicine Faculty between 2001 and 2007. Tissue samples from primary tumors and corresponding normal colon epithelium from 46 patients with colorectal cancer were immunohistochemically evaluated for mast cell density p53, Ki-67, vascular endothelial growth factor, epidermal growth factor receptor, carcinoembriyonic antigen and micro vessel thickness.

In this study, mast cell density was correlated with vascular endothelial growth factor expression at tumor tissue. And vascular endothelial growth factor was significantly negatively correlated with survival time. Negative correlations between survival time and p53, Ki-67, epidermal growth factor receptor, carcinoembriyonic antigen expression, mast cell density and micro vessel thickness (demonstrated with CD-31 and C-34) were not statistically significant. Ki-67 expression was significantly correlated with liver, lung and bone metastasis.

The results demonstrated that mast cell density is associated with poor prognosis in the patients with colorectal cancer and vascular endothelial growth factor expression is associated with short survival time because of the correlation between mast cell density and a vascular endothelial growth factor expression.

Key words: Colorectal cancer, p53, Ki-67, Angiogenesis inducers

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