

عنوان مقاله:

Association of Vascular Endothelial Growth Factor, (VEGF), expression with tumor grade in esophageal cancer

محل انتشار:

سومین کنگره بین المللی و پانزدهمین کنگره ملی ژنتیک ایران (سال: 1397)

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خلاصه مقاله:

Background: Esophageal cancer is the 8th most important cancer in the world. VEGF Vascular Endothelial Growth Factor, VEGF, protein expression is potentiated in response to the hypoxic state. VEGF is upregulated in many known tumors and its expression is correlated with tumor stage and progression. VEGF gene is mutated in the different type of esophageal cancers. This growth factor induces proliferation and migration of vascular endothelial cells, and is essential for both physiological and pathological angiogenesis. The present study examined the expression pattern of VEGF in esophageal squamous cell carcinoma (ESCC). Method: Eighty tumor tissues and margin normal tissues of ESCC cancer were collected patients who underwent surgery from the Tumor Bank of Cancer Institute, Imam Khomeini Hospital, Tehran. The gene expression level of VEGF was evaluated using quantitative RT-PCR method. PCR products were normalized to GAPDH as an internal control. All experiments were performed with two replicates. The fold-change expression was analysed by t-test. In which ($P \leq 0.05$). Results: The quantitative Real-Time RT-PCR results revealed a significant upregulation of VEGF (P -value=0.0113) in tumor samples of ESCC, compared to their matched non-tumor tissues obtained from the margin of the same tumors. Moreover, our data demonstrated a meaningful upregulation of VEGF in high-grade tumor samples, in comparison to the low-grade ones (P -value=0.002). Conclusion: The elevated level of VEGF expression in tumor associated grade may be an interesting issue for molecular targeting in esophageal cancer therapy

کلمات کلیدی:

Esophageal Squamous Cell Carcinoma (ESCC), VEGF, Tumor grade

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