عنوان مقاله:

Transcriptional activity of tumor necrosis factor-alpha gene in peripheral blood mononuclear cells in patients with coronary slow flow

محل انتشار:

مجله آریا آترواسکلروز, دوره 13, شماره 4 (سال: 1396)

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خلاصه مقاله:

BACKGROUND: Coronary slow flow (CSF), an angiographic phenomenon that is characterized by a delayed coronary blood flow in the absence of obstructive coronary artery stenosis, is known as a disorder of the coronary microcirculation. Inflammation has an important role in the vascular hemostasis and endothelial dysfunction especially regarding monocyte adhesion and infiltration. Pro-inflammatory cytokines released by inflammatory cells result in endothelial cell dysfunction and cardiovascular diseases. It has been demonstrated that tumor necrosis factor-alpha (TNF- α) mainly influences the vascular homeostasis and endothelial dysfunction. In the present enquiry the transcriptional activity of TNF- α gene in peripheral blood mononuclear cells (PBMCs) of patients with CSF was compared with healthy controls in order to further survey the role of TNF- α in pathophysiology of CSF. METHODS: The study was carried out on τ patients with CSF and τ matched healthy controls. To analysis gene expression of TNF- α , total mRNA was isolated from PBMCs. The quantitative real-time reverse transcription-polymerase chain reaction (qRT-PCR) was used to compare the transcriptional activity of TNF- α gene between patients with CSF and controls. RESULTS: The mean \pm standard error of mean of fold in CSF patients and controls were \cdot . τ \cdot τ and τ . τ \cdot τ

كلمات كليدى:

Inflammation, Tumor Necrosis Factor-alpha, Cytokines, Slow Flow Phenomenon, Coronary Angiography

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