

عنوان مقاله:

Programmed cell death protein ۱ and its ligands Immune Checkpoint Inhibitors expression in patients with gastric adenocarcinoma cancer

محل انتشار:

چهاردهمین کنگره پژوهشی سالیانه دانشجویان علوم پزشکی شرق کشور (سال: 1399)

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خلاصه مقاله:

Gastric cancer is the fifth most common malignancies worldwide. One proposed mechanism has been used by cancer cells for immune evasion is the suppression of immunity via the expression of programmed cell death protein ۱ (PD-۱) and its ligands (PDL-۱). This study was conducted to evaluate the correlation between PD۱ and PDL-۱ expression and prognosis in patients with gastric cancer. Methods: In this case-control study, ۲۰ RNA samples from gastric adenocarcinoma patients and ۱۳ RNA samples from healthy subjects who were admitted to Razavi Hospital and ۲۲ Bahman Hospital, Mashhad, Iran between ۲۰۱۴ and ۲۰۱۸ were analyzed. the gastric adenocarcinoma patients who diagnosed according to ۷th edition of American Joint Committee on Cancer (AJCC) and ۷th edition the Union for International Cancer Control (UICC) criteria. Total RNA was extracted from homogenized tissues specimens using TRIzol reagent. then, for detection of the expression of the human PD۱, PD-L۱ and glyceraldehyde ۳-phosphate dehydrogenase (GAPDH) the Real-Time PCR system (Corbett, Germany) was used. Data were analyzed by SPSS version ۲۲ using one-way ANOVA. The significance level in this study was < 0.05 . Findings: Totally ۳۳ specimens from ۲۰ male and ۱۳ female participants were analyzed. The mean age of patients and healthy controls were 62.25 ± 10.23 and 58.2 ± 7.62 years, respectively. our results showed that the expression of PD-۱ was significantly higher in patients with gastric adenocarcinoma in comparison with healthy controls ($p < 0.05$). Also, we observed that the PD-۱ and the PDL-۱ expression were significantly correlated with the patient's age and gender, respectively. Conclusion: The result of this study showed the PD-۱ expression pattern in tumor tissues is an appropriate prognosis factor for gastric adenocarcinoma cancer.

کلمات کلیدی:

Gastric cancer, Adenocarcinoma, Immune Checkpoint Inhibitors, PD-۱, PDL-۱

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