

عنوان مقاله:

Association Between HOTAIR rs920778 and H19 rs3741219 Polymorphisms with Hashimoto's Thyroiditis (HT) and Graves' Disease (GD)

محل انتشار:

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خلاصه مقاله:

Background: Graves' disease (GD) and Hashimoto's thyroiditis (HT) are two autoimmune thyroid diseases (AITDs). The current study aimed to assess possible association between HOTAIR rs920778 and H19 rs3741219 polymorphisms with GD and HT. Methods: We recruited 248 patients with autoimmune thyroid disease (133 HT patients and 115 GD patients) and 135 age- and sex-matched controls. The PCR-RFLP method was applied for genotyping of HOTAIR rs920778, and H19 rs3741219 polymorphisms. Results: The HOTAIR rs920778 GA frequency was significantly higher in control compared to HT group. The Overdominant model showed a significant association with the risk of HT. However, no significant association was observed between this polymorphism and HT susceptibility in dominant and recessive models. The H19 rs3741219 GA was more repeated in HT patients compared to control group, but the difference was not significant. There was no association between HOTAIR rs920778 and H19 rs3741219 polymorphisms with GD in all genetic models. Conclusions: Our findings indicated that HOTAIR rs920778 polymorphism decreased the risk of HT. Since, this the first study, further studies with different races are required to confirm our results

کلمات کلیدی:

Hashimoto's thyroiditis, Graves' disease, HOTAIR, H19, Polymorphism

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