

عنوان مقاله:

The investigation of rs9939609 in FTO gene variation for identification of obesity predictor marker

محل انتشار:

اولین کنگره پزشکی شخصی (سال: 1395)

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خلاصه مقاله:

Background and purpose: Obesity is a worldwide health challenges and the negative impact on health And reduces the lifespan and increase the risk of various diseases. Obesity is a medical condition characterized by the accumulation of excess fat in the body defined so that may have adverse effects on body mass index. Fat mass and obesity (FTO) leading to obesity and strongly expressed in the hypothalamus involved in regulation of energy balance and appetite. The aim of this study was to investigate the association between polymorphisms in genes of choice for obesity-related FTO (rs9939609). **Methods:** In this retrospective study The allelic frequency of markers selected from between 226 and 144 patients with obesity BMI 30 and below BMI 20 to BMI 25-30 and 83 Cases selected with BMI 20-25 TetraArms PCR was used to detect the expression of FTO .Statistical analysis was performed to assess the association between FTO expression and the clinicopathological features **Result:** Genetic factors play a significant role in the development of obesity Based on this research focused on identifying the genetic factors in the regulation of body weight. In this study a significant association was seen FTO . Body mass index (BMI) were divided into three groups: People with BMI less than 20 had on the people genotype A-A and A-T of RS9939609 were significant.($P = 000$ and $p = .120$). In people who had a BMI between 25-30 were all significant. And those who had a BMI above 30 carries the gene FTO RS9939609 were all significant **Conclusion:** Our study suggests that FTO expression may have a vital role in the obesity. Which can be prevented by changing the living conditions of obesity in individuals

کلمات کلیدی:

obesity, fto, genetic variation

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