

Association Between Interleukin-6 Gene Polymorphism and Severity of Coronary Artery Disease in Patients with Diabetes [Letter]

Jing Wang, Yuan Fang, Qi Zhang, Huiyan Yang

Department of Cardiovascular Surgery, General Hospital of Ningxia Medical University, Yinchuan, Ningxia, 750004, People's Republic of China

Correspondence: Huiyan Yang, Department of Cardiovascular Surgery, General Hospital of Ningxia Medical University, Yinchuan, Ningxia, 750004, People's Republic of China, Email nyfyhy@163.com

Dear editor

Recently, an original study titled “Association Between Interleukin-6 Gene Polymorphism and Severity of Coronary Artery Disease in Patients with Diabetes”¹ was published by Yao et al in the reputable journal “Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy”. Firstly, I would like to congratulate the authors and acknowledge their successful publication.

The article concludes that The IL-6-572G/C gene polymorphism is associated with the incidence and severity of coronary heart disease in patients with diabetes.

Studies have shown,² the genotypes at the – 572G/C (rs1800796) hotspot did not show any association with age, gender, obesity, diabetes, hypertension, dyslipidemia, smoking, and coronary artery status. In addition, no significant association was observed with biochemical and inflammatory markers, namely fasting blood sugar, glycated hemoglobin A1c, creatinine, total cholesterol, triglycerides, high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol, IL-6, and C-reactive protein.

Studies have shown,³ This meta-analysis found that in people with COPD, Allele C of IL6-572G/C (C vs G), homozygous model (CC vs GG), dominant model (GC+CC vs GG), recessive model (CC vs GC+ GG), homozygous model CC, recessive model (CC) in the general population and Asian population The GC+CC genotype in the dominant model (GC+CC vs GG) may be a protective factor for the risk of COPD.

In addition, ethnic diversity can be a major possible reason for genetic differences with variable genotypic and phenotypic expression.

However, there are some limitations of the current study. First, this study was a retrospective study of clinical cases with some selection bias, and the sample size of this study was small, which needs to be validated by multicenter, large sample, and prospective studies in the future. Second, the relationship between the IL-6-572G/C gene polymorphism and the incidence and severity of coronary heart disease in patients with diabetes deserves further study. Finally, long-term clinical observation of IL-6-572G/C gene may also provide more information on the prognosis of patients.

Disclosure

The authors report no conflicts of interest in this communication.

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