



Role of inflammatory parameters in the susceptibility of cerebral thrombosis

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ABSTRACT. We aimed to investigate the association of inflammation-related genes such as IL-10, IL-6 and IL-1B with risk of ischemic stroke. We included 426 cases with ischemic stroke and 426 health controls from Xinxiang, China. Genomic DNA was extracted from the buffy coat layer of collected blood with the TIANamp blood DNA kit. Diabetes, hypertension, obesity, and smoking habits were associated with risk of ischemic stroke. We found that individuals carrying the CC genotype of IL-1B rs1864169 had a higher risk of ischemic stroke when compared with the TT genotype (OR = 1.80, 95%CI = 1.16-2.80). The IL-6 rs1800796 TT genotype was associated with increased risk of ischemic stroke. We found that IL-1B rs1864169 and IL-6 rs1800796 polymorphisms may interact with diabetes, hypertension and obesity. Our study suggests that IL-6 rs1800796 and IL-1B rs1864169

polymorphisms are associated with ischemic stroke risk in the Chinese population.

Key words: Inflammatory parameters; Cerebral thrombosis; Polymorphism