

## IL-1β基因多态性、幽门螺旋杆菌感染及其交互作用与新疆汉族胃癌发生的关系

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### Interactions between IL-1β Gene Polymorphism and Helicobacter Pylori Infection as Well as Relationship of Helicobacter Pylori and Gene with Risk of Gastric Cancer in Han Nationalities in Xinjiang

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#### 摘要

#### 目的

探讨IL-1β基因多态性、幽门螺旋杆菌(Helicobacter pylori,HP)感染及其交互作用与新疆汉族胃癌发生的关系。方法采用Snapshot技术分析229例胃癌患者和作为对照的256例非胃癌患者IL-1β基因rs1143633、rs3136558和rs1143630位点基因型的分布;采用幽门螺旋杆菌IgG抗体检测试剂盒检测研究对象Hp感染率。结果IL-1β基因rs3136558位点多态性、Hp感染与新疆汉族胃癌的发病有关;Hp感染与基因之间的交互作用表明,在汉族人群中,Hp感染阳性,同时携带IL-1β基因 rs3136558 TT基因型个体发生胃癌的危险性是Hp感染阴性并携带IL-1β基因 rs3136558 CT+CC基因型个体的2.25倍(95% CI: 1.37~3.69)。结论Hp感染和IL-1β基因多态之间存在交互作用,共同促进胃癌的发生。

关键词: 胃癌 汉族 IL-1&beta 单核苷酸多态性 幽门螺旋杆菌 交互作用

#### Abstract:

#### Objective

To evaluate the interactions between IL-1β gene polymorphism and Helicobacter pylori(Hp) as well as the relationship of Hp and IL-1β gene polymorphism with risk of gastric cancer in Han nationalities in Xinjiang.MethodsSnapshot method was carried out to analysis the polymorphism of IL-1β gene in 229 cases of gastric cancer and in 256 controls.The assure Hp rapid test was used to investigate the presence of IgG antibodies to Hp.ResultsIt is possible that incidence of gastric cancer in Han population is associated with the genetic polymorphism of IL-1β and Hp infections.In Han populations,interactions between Hp infections and gene showed that:individuals having IL-1β gene at rs3136558 site TT genotype and Hp infections had a 2.25-fold (95% CI: 1.37~3.69) increased risk of developing GC compared with those who having CT+CC genotype but no Hp infections.ConclusionThe interactions between the genetic polymorphism of IL-1β gene and Hp infections increase the risk of gastric cancer.

Key words: Gastric Cancer Han nationality IL-1&beta Genetic polymorphism Helicobacter pylori Interaction

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