上海地区胃癌病人运铁蛋白(Tf)、组特异性成分(Gc)、**q**1-抗胰蛋白酶(**q**1—AT)亚型分布的研究

陆振虞, 冯波, 冯际平, 陈仁彪, 徐玖瑾, 杜若甫

1.上海第二医科大学医学遗传学教研室 20025; 2.中国科学院遗传研究所人类群体遗传研 究室, 北京

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摘要 用薄层聚丙烯酰胺凝胶等电聚焦电泳分析了上海地区202例汉族胃癌病人及202例正常对 照组的运铁蛋白 (Tf) 和 α 1-抗胰蛋白酶 (α 1-AT) 亚型的分布,发现胃癌组Tfc1c1纯合子频 率 (0. 3713) 和Tfc1基因频率 (0. 5718) 显 著低于对照组 (分别为0. 5149和0. 6782),均为p<0. 0 1,胃癌组Tfc2c2纯合子频率 (0. 2228) 和Tfc2基因频率 (0. 4019) 显著高于对照组 (分别为0. 14 36, p<0. 05和0. 2970, p<0. 01),胃癌组和对照组的 α 1-抗胰蛋白酶亚型分布无显著差异。用 薄层聚丙烯酰胺等电聚焦结合免疫固定分析了上海地区200例汉族胃癌病人和200例正常对照 组的组特异性成分 (Gc) 亚型分布,发现胃癌组Gc1F表型频率 (0. 22) 和Gc1F基因频率 (0. 4375)均显著高于正常对照组 (分别为0. 14和0. 3600, 均为p<0. 05)。

关键词 胃癌,运铁蛋白(Tf),组特异性成分(Gc), α 1-抗胰蛋白酶(α 1-AT),聚丙烯酰胺凝胶电 泳,等电聚焦 分类号

Studies of Distribution of Subtypes of Transferrin, Group-specific Component, α 1-Antitrypsin in Gastric Cancer Patients from Shanghai Area

Lu Zhenyu, Feng Bo, Feng Jiping, Chen Renbiao, Xu Jiujin, Du Ruofu

1.Department of Medical Genetics, Shanghai Second Medical University 200025; 2.Institute of Genetics chinese Academy of Science, Beijing

Abstract

The genetic polymophisms of transferrin (Tf) and a1-Antitrypsin (a1-AT) in 202 gastric cancer patients and 202 controls in Shanghai Hans were analyzed by isoelectric focusing. In transferrin, the phenotype frequency of C1C1 and gene f requencies of c1 and c2 were 0.3713, 0.5718 and 0.4109 respectively in gastric c ancer patients, and 0.5149, 0.6782 and 0.2970 separately in controls. The freque ncies of the c1c1 phenotype and the C1 gene increased significantly (p<0.01)amo ng the controls, while the frequency of the C2 gene greatly increased (p < 0.01) among the patients. The frequencies of the C2C2 in gastric cancer patients and c ontrols were 0.2228 and 0.1436 respectively, showing a significant difference be tween them (p < 0.05). The genetic polymorphisms of group-specific component (Gc) in 200 gastric ca ncer patients and 200 controls in Shanghai Hans were studied with isoelectric fo cusing followed by immunofixation. The Gc1F1F phenotype frequency and 1Fgene fre quency were 0.22 and 0.4375 in gastric cancer patients, and 0.14 and 0.3600 in c ontrols, respectively. The frequencies of the Gc1F1F phenotype and the 1F gene w ere significantly increased (p<0.05) among the patients. In a1-Antitrypsin, there was no significant difference in phenotype frequen cies and gene frequencies between the patients and controls. The data reported here indicate that the gastric cancer is associated positi vely with TfC2 and Gc1F, and negatively with TfC1. These facts support the notio n that cancerogenesis is a multi-step process controlled by multifactorial inher itance.

Key words Gastric Cancer Transferrin(Tf) Group-Specific Component (Gc) α1-Antitrypsi n(α1-AT) Polyacrylamide gel electrophoresis (PAGE) Isoelectric focusing (IEF)

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- <u>陆振虞</u>
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