

外周血黏附分子CD24在结直肠癌筛查中的作用

《现代肿瘤医学》[ISSN:1672-4992/CN:61-1415/R] 期数: 2019年08期 页码: 1359-1362 栏目: 论著 (消化·泌尿系肿瘤) 出版日期: 2019-03-08

Title: The role of CD24 expression in peripheral blood in the screening of colorectal cancer

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关键词: CD24; 结直肠癌; 筛查

Keywords: CD24; colorectal cancer; screening

分类号: R735.3

DOI: 10.3969/j.issn.1672-4992.2019.08.017

文献标识码: A

摘要: 目的:探讨外周血CD24在结直肠癌及大肠息肉筛查中的作用。方法:应用流式细胞仪分别检测新发结直肠癌患者、大肠息肉患者及健康对照者外周血白细胞中的CD24表达情况。进一步根据病理类型将大肠息肉患者分为炎症性息肉、增生性息肉、腺瘤性息肉及腺瘤性息肉伴不典型增生四组,比较组间差异。结果:结直肠癌患者(15.56±5.28)、大肠息肉患者(12.05±3.43)外周血白细胞中CD24的荧光强度显著高于健康对照(9.42±1.48)($P < 0.01$)。炎症性息肉(10.75±1.80)、增生性息肉(12.14±3.11)、腺瘤性息肉患者(10.77±2.67)外周血白细胞中CD24的荧光强度无统计学差异,腺瘤性息肉伴不典型增生组患者(17.08±5.12)外周血白细胞中CD24的荧光强度显著高于前三组($P < 0.01$)。结论:非侵入性的外周血CD24表达水平的检测对于结直肠癌的筛查可能有一定的意义。

Abstract: Objective:To estimate the role of CD24 expression in peripheral blood leukocytes in the screening of colorectal cancer.Methods:CD24 expression in peripheral blood leukocytes of colorectal cancer patients,colorectal polyp patients and health controls were detected by flow cytometry.Colorectal polyp patients were divided into four groups according to pathological type,that were inflammatory polyp group,hyperplastic polyp group,adenomatous polyp group and adenomatous polyp with atypical hyperplasia group.Compare the difference of CD24 fluorescence intensity between each groups.Results:The median values of CD24 fluorescence intensity of colorectal cancer patients (15.56±5.28) and colorectal polyp patients (12.05±3.43) were much higher than health control (9.42±1.48) ($P < 0.01$).The median values of CD24 fluorescence intensity of adenomatous polyp with atypical hyperplasia group (17.08±5.12) were much higher than the inflammatory polyp group (10.75±1.80),hyperplastic polyp group (12.14±3.11) and adenomatous polyp group (10.77±2.67) ($P < 0.01$).But there was no statistical difference in the other three groups.Conclusion:A simple noninvasive blood test evaluating CD24 expression might be useful for in the screening of colorectal cancer.

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备注/Memo: 西安市科技计划项目 [编号: SF1202(5)]

更新日期/Last Update: 1900-01-01