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结肠息肉癌变过程中内镜微血管特征与MVD IGF-1 STAT3表达相关性研究*

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Correlation of microvascular characteristics under narrow band imaging with MVD, IGF-1, and STAT3 expression during cancerization of colorectal polyp

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摘要

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摘要

目的: 分析MVD、IGF-1、STAT3等血管生成因子在结肠癌及癌前病变组织中的表达与窄带成像内镜(NBI)下的微血管形态的相关性, 探究内镜实时观测血管生成的可行性。方法: 将普通白光内镜以及NBI内镜均诊断为结肠息肉样病变并经病理组织学证实的结肠早期癌、结肠腺瘤纳入研究, 将微血管形态分为三型: I型: 无微血管形态可见; II型: 微血管沿腺管开口排列, 粗细均匀; III型: 微血管粗细不均, 排列紊乱。同时将病变组织进行CD34、IGF-1、STAT3免疫组织化学染色, 比较NBI微血管形态特征和组织学结果的相关性。结果: 共有58例患者的64个部位(结肠早期癌15个, 腺瘤29个, 正常黏膜20个)进行NBI内镜检查, NBI II型部位以腺瘤为主, 占82.1%(23/28), 而早癌多表现为III型, 占66.7%(10/15)。免疫组织化学提示微血管密度(MVD-CD34)、IGF-1在正常黏膜、结肠腺瘤和结肠早癌中的表达有显著性差异($P < 0.0001$, $P = 0.0062$), STAT3在三者间表达有逐渐增高的趋势($P = 0.0713$)。在NBI微血管形态分型I、II、III型组织中MVD-CD34、IGF-1、STAT3的表达均有显著性差异($P < 0.0001$, $P = 0.0010$, $P = 0.0055$)。NBI的微血管类型和MVD、IGF-1、STAT3表达的相关系数分别为0.67、0.41和0.40。结论: 根据NBI内镜实时微血管形态评估组织血管生成, 是一项非常有前景的结肠息肉癌变检测方法。

关键词: 窄带成像内镜, 结肠腺瘤, 结肠早期癌, 微血管形态, 肿瘤血管生成

Abstract:

Objective: To investigate the correlation between the expression of angiogenic factors (MVD, IGF-1, and STAT3) in colorectal carcinoma and adenoma and the microvascular characteristics under narrow band imaging (NBI), in order to evaluate the feasibility of NBI in real-time observation of angiogenesis. Methods: Patients with pathologically confirmed colorectal polyps were recruited and examined by NBI. Vascular patterns were classified into type I (invisible or faintly visible), type II (clearly visible and regularly arranged in a round, oval honeycomb-like pattern), and type III (clearly visible and irregularly arranged in terms of size and caliber or irregularly wined). Immunohistochemical staining was performed to determine the expression of CD34, IGF-1, and STAT3. Histological results were compared with the vascular patterns under NBI. Results: The NBI endoscopy results of 64 sites (15 adenocarcinomas, 29 adenomas, and 20 normal tissues) from 58 patients were introduced and examined in this study. Adenomas ranked the first (82.1%, 23/28) among the vascular pattern II cases, whereas early adenocarcinomas dominated the vascular pattern III cases (66.7%, 10/15). The expression levels of MVD-CD34 and IGF-1 in normal mucosa, adenomas, and adenocarcinomas were significantly different ($P < 0.0001$ and $P = 0.0062$, respectively). All the expression levels of MVD-CD34, IGF-1, and STAT3 in sites displaying vascular patterns I, II, and III were significantly different ($P < 0.0001$, $P = 0.0010$, and $P = 0.0055$, respectively). Spearman correlation coefficients between the NBI vascular patterns and the MVD-CD34, IGF-1, and STAT3 expression levels were 0.67, 0.41, and 0.40, respectively. Conclusion: Vascular pattern analysis through an NBI system can be a promising tool to evaluate angiogenesis of colorectal lesions in real-time endoscopic observation.

Key words: narrow band imaging colorectal adenoma early colorectal carcinoma microvascular pattern tumor angiogenesis

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