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直肠内脱垂患者直肠顺应性变化与肠黏膜中TRPV1、5-HT表达的关系(PDF)

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Title: Relationship of TRPV1/5-HT expression in intestinal mucosa and rectal compliance in patients with internal rectal prolapse

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关键词: [肛管直肠测压](#); [TRPV1](#); [5-HT](#); [直肠内脱垂](#)

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摘要: 目的 探讨直肠内脱垂(internal rectal prolapse,IRP)患者直肠顺应性改变与TRPV1、5-HT在直肠黏膜层表达的关系。 方法 选择临床诊断IRP的患者20例及对照组20例先进行肛管直肠测压,然后行结肠镜检查,在齿状线上方4 cm处下段直肠取黏膜活检,行TRPV1和5-HT免疫组化染色,采用图像分析法分析免疫反应阳性情况。 结果 与对照组比较,IRP组初始感觉容积明显增高($Z=-3.710$, $P<0.01$),最大感觉耐受容积明显降低($Z=-5.181$, $P<0.01$),直肠顺应性明显降低;对照组黏膜层仅有少量TRPV1表达,IRP组直肠黏膜腺体可见大量TRPV1阳性染色,与对照组相比,IRP组直肠黏膜层TRPV1的表达显著增强($Z=-$

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5.085, $P < 0.01$); 对照组黏膜层5-HT免疫阳性染色很少, 而IRP组黏膜层腺体细胞内5-HT表达量显著升高($Z = -4.734$, $P < 0.01$)。 结论 IRP患者直肠顺应性明显低于对照组, 与直肠黏膜层TRPV1和5-HT免疫反应阳性显著增强导致直肠高敏感有关, 可能是IRP患者肛门坠胀、便意频繁等排便功能障碍的机制之一。

Abstract: **Objective** To investigate the relationship of expression changes of transient receptor potential vanilloid 1 (TRPV1) and 5-hydroxytryptamine (5-HT) in rectal mucosa and rectal compliance in the patients with internal rectal prolapse (IRP). **Methods** A total of 20 out-patients who were diagnosed as IRP in our department and 20 sex- and age-matched healthy individuals for physical examination from October to December 2012 were enrolled in this study. They received colonoscopy after anorectal manometry. Immunohistochemical assay for TRPV1 and 5-HT was carried out in the mucosal samples from the lower rectum at 4 cm above the dentate line. **Results** The initial sensation volume was significantly higher in IRP group than in normal control ($Z = -3.710$, $P < 0.01$), but the largest feeling tolerance volume was obviously lower in IRP group ($Z = -5.181$, $P < 0.01$). The rectal compliance was significantly lower in the IRP group than in normal control. TRPV1 was extensively expressed in the rectal mucosa of IRPs when compared in that of control ($Z = -5.085$, $P < 0.01$). Similar