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柳氮磺胺吡啶联合丽珠肠乐治疗溃疡性结肠炎的疗效 及对患者炎症反应的影响 *

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摘要目的: 观察丽珠肠乐联合柳氮磺胺吡啶治疗溃疡性结肠炎的疗效及对患者炎症反应的影响。**方法:** 选取我院2014年6月-2017年6月期间收治的溃疡性结肠炎患者120例,根据数表法将患者分为观察组(n=60)和对照组(n=60)。对照组采用柳氮磺胺吡啶治疗,观察组在对照组的基础上增加丽珠肠乐治疗。连续治疗8周后观察两组患者的临床疗效以及结肠炎症状改善程度,并对两组患者治疗前后的血清炎症因子水平进行检测对比,同时观察两组患者不良反应发生情况。**结果:** 观察组临床治疗的总有效率为93.33%(56/60),高于对照组的80.00%(48/60)(P<0.05)。治疗后两组患者Sutherland指数评分、肠道菌群评分、肠镜评分均低于治疗前,且观察组低于对照组(P<0.05)。治疗后两组患者CRP、IL-6、TNF- α 水平均低于治疗前,且观察组低于对照组(P<0.05)。观察组不良反应发生率为13.33%(8/60),与对照组的8.33%(5/60)比较差异无统计学意义(P>0.05)。**结论:** 柳氮磺胺吡啶联合丽珠肠乐治疗溃疡性结肠炎的临床疗效显著,能够改善患者的临床症状,降低患者体内的炎症因子水平,且无严重不良反应发生,临床应用价值高,值得进一步推广应用。

关键词: 丽珠肠乐;柳氮磺胺吡啶;溃疡性结肠炎;临床疗效;炎症因子

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Effect of Sulfasalazine Combined with Li Zhu Chang Le in Treatment of Ulcerative Colitis*

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ABSTRACT Objective: To observe the effect of sulfasalazine combined with Li Zhu Chang Le in the treatment of ulcerative colitis and its influence on the inflammatory reaction. **Methods:** A total of 120 patients with ulcerative colitis, who were treated in Zigong Fourth People's Hospital from June 2014 to June 2017 were selected and randomly divided into observation group (n=60) and control group (n=60). The control group was treated with sulfasalazine, and the observation group were treated with Li Zhu Chang Le on the basis of the control group's therapy. After 8 weeks of continuous treatment, the clinical efficacy of the two groups and the improvement of the symptoms of colitis were observed, and the levels of serum inflammatory factors before and after treatment were compared between the two groups, at the same time, the incidence of adverse reactions in the two groups was observed. **Results:** The total effective rate(93.33%) of clinical treatment of the observation group was higher than that (80.00%) of the control group (P<0.05). The scores of Sutherland index, intestinal flora and enteroscopy after treatment were lower than those before treatment, and the indexes of the observation group were lower than those of the control group (P<0.05). The levels of CRP, IL-6 and TNF- α of the two groups after treatment were lower than those before treatment, and the indexes of the observation group were lower than those of the control group (P<0.05). The incidence of adverse reactions in the observation group and the control group was 13.33% (8/60) and 8.33% (5/60), respectively, in which, there was no significant difference between the two groups (P>0.05). **Conclusion:** The clinical curative effect of Salazonazine combined with Li Zhu Chang Le in the treatment of ulcerative colitis is better, without serious adverse reaction and with high value of clinical application, which is worthy of further popularization and application.

Key words: Li Zhu Chang Le; Sulfasalazine; Ulcerative colitis; Clinical efficacy; Serum inflammatory factors

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前言

溃疡性结肠炎是一种发生在乙状结肠和直肠的黏膜或黏

膜下层的炎性病变,根据流行病学观察显示该病在临幊上有较高的发病率,且出现在各年龄段人群中^[1,2]。该病临幊表现有腹泻、便血、恶心、呕吐、腹痛以及体重减轻等消化道症状,病程较

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长、易反复发作,给患者的生活质量带来了极大的影响^[3-5]。目前,对于溃疡性结肠炎的发病原因尚未明确,临床较为认可的观点显示该病的发生与环境、遗传、免疫功能异常、肠道菌群失调等因素有关^[6-8]。目前,药物治疗是溃疡性结肠炎的主要治疗方式,其中包括抗菌药、糖皮质激素、免疫抑制剂等,其中磺胺类抗菌药如柳氮磺胺吡啶是临床治疗溃疡性结肠炎的常规治疗药物,有较好的抗炎抗菌作用,在临幊上应用广泛^[9-11]。但是此类药物治疗后虽然症状缓解明显,但仍有部分患者难以获得较好的疗效。微生态制剂如丽珠肠乐可调节患者肠道的通透性、调整肠道菌群的平衡状态、增强肠道黏膜的屏障功能,从而进一步改善患者结肠的局部炎症反应^[12]。为此,本研究以我院近期收治的溃疡性结肠炎患者为研究对象,采用丽珠肠乐联合柳氮磺胺吡啶进行治疗观察,收效良好,现作如下报道。

表 1 两组患者一般资料比较
Table 1 Comparison of general data between two groups

Groups	n	Gender		Age (year)	Course of disease (week)	Lesion site			Degree of disease		
		Male	Female			Whole colon	Sigmoid colon	Rectum	Light	Moderate	Severe
Observation group	60	34	26	39.35±12.78	7.89±2.03	23	19	18	19	32	9
Control group	60	31	29	42.71±13.56	8.12±2.28	26	20	14	21	35	4
t/ χ^2	-	0.302		1.397	0.584	0.709			2.157		
P	-	0.583		0.165	0.561	0.701			0.340		

1.2 治疗方法

对照组给予柳氮磺胺吡啶治疗,采用柳氮磺胺吡啶肠溶片(上海福达制药有限公司,国药准字:H31020840,规格:0.25 g)进行口服给药治疗,给药方式为3片/次,4次/d,4周为1个疗程。观察组患者在对照组的基础上增加双歧杆菌活菌胶囊(丽珠集团丽珠制药厂,商品名:丽珠肠乐,国药准字:S10960040,规格:0.35 g)口服治疗,给药方式为1粒/次,2次/d,于早晚服用,4周为1个疗程。两组患者均服药2个疗程后观察疗效。

1.3 评价方法

评价两组患者治疗后临床疗效,疗效判断标准^[14]如下:治愈:患者临床症状全部消失,肠镜检查、粪便检查显示患者结肠炎症消失;显效:患者临床症状基本消失,临床各项症状评分有明显下降;有效:患者临床症状有一定改善,各症状评分均较治疗前降低1级;无效:患者临床症状无好转。总有效率=治愈率+显效率+有效率。采用Sutherland指数评分对两组患者治疗前后的腹泻频率、肠黏膜状态、直肠出血等疾病活动情况进行评分比较,该评分表满分为12分,得分越高表明患者症状越严重。采用肠道菌群评分对两组患者治疗前后的肠道菌群状态进行评分比较,该量表满分为5分,得分越高表明患者的菌群失调越严重。采用肠镜评分对两组患者的肠黏膜状态进行评分比较,该量表满分为4分,得分越高表明患者的肠黏膜症状越严重。于治疗前后检测两组患者的炎症因子指标水平,采集患者空腹静脉血3 mL,采用TGL-16型高速离心机进行离心,3000

1 资料与方法

1.1 一般资料

选取我院2014年6月~2017年6月间收治的120例溃疡性结肠炎患者,纳入标准:(1)均符合中华医学会分会制定的溃疡性结肠炎的相关诊断标准^[13],经结肠镜镜检、肠黏膜活检确诊为溃疡性结肠炎;(2)病态分期均为活动期者;(3)本研究治疗药物无严重过敏反应者;(4)患者知情同意并签署知情同意书。排除标准:(1)伴有严重心肝肾功能不全者;(2)并发肠道的其他病变者;(3)入组前服用类似治疗药物者。根据数表法将患者分为观察组(n=60)和对照组(n=60)。两组患者的基础资料比较差异无统计学意义($P>0.05$),详见表1。本研究经医院伦理委员会批准同意。

r/min,10 min,分离得到血清后采用酶联免疫吸附试验检测患者的C反应蛋白(C reactive protein,CRP)、白介素-6(Interleukin-6,IL-6)、肿瘤坏死因子- α (Tumor necrosis factor- α ,TNF- α)水平,试剂盒购置于上海雅培生物科技工程有限公司,严格按照说明书操作规程进行。观察治疗期间不良反应发生情况。

1.4 统计学方法

采用SPSS 19.0进行数据处理与分析,计量资料用($\bar{x}\pm s$)表示,采用t检验,计数资料用率表示,采取 χ^2 检验,检验标准设置为 $\alpha=0.05$ 。

2 结果

2.1 两组患者临床疗效比较

观察组临床治疗的总有效率为93.33%(56/60),显著高于对照组的80.00%(48/60)($P<0.05$),见表2。

2.2 两组患者 Sutherland 指数评分、肠道菌群评分、肠镜评分比较

治疗前两组患者Sutherland指数评分、肠道菌群评分、肠镜评分比较无差异($P>0.05$),治疗后两组患者Sutherland指数评分、肠道菌群评分、肠镜评分均低于治疗前,且观察组低于对照组($P<0.05$),见表3。

2.3 两组患者血清炎症因子水平比较

治疗前两组患者CRP、IL-6、TNF- α 水平比较无差异($P>0.05$),治疗后两组患者CRP、IL-6、TNF- α 水平均低于治疗前,

且观察组低于对照组($P<0.05$),见表4。

表2 两组患者临床疗效比较[n(%)]

Table 2 Comparison of clinical efficacy between two groups[n(%)]

Groups	n	Cure	Effective	Good	Invalid	Total effective rate
Observation group	60	23(38.33)	18(30.00)	15(25.00)	4(6.67)	56(93.33)
Control group	60	19(31.67)	16(26.67)	13(21.67)	12(20.00)	48(80.00)
χ^2						4.615
P						0.032

表3 两组患者 Sutherland 指数、肠道菌群、肠镜评分比较(分, $\bar{x}\pm s$)Table 3 Comparison of Sutherland index, intestinal flora, and enteroscopy score between two groups (scores, $\bar{x}\pm s$)

Groups	n	Sutherlandindex		Intestinal flora		Enteroscopy score	
		Before treatment	After treatment	Before treatment	After treatment	Before treatment	After treatment
Observation group	60	8.09± 1.98	3.38± 0.49*	3.17± 0.36	1.73± 0.45*	3.09± 0.58	1.19± 0.38*
Control group	60	7.86± 1.85	4.74± 0.65*	3.25± 0.39	2.52± 0.59*	3.16± 0.65	1.77± 0.46*
t	-	0.657	12.942	1.167	8.247	0.622	7.530
P	-	0.512	0.000	0.245	0.000	0.535	0.000

Note: compared with before treatment, * $P<0.05$.

表4 两组患者血清炎症因子水平比较($\bar{x}\pm s$)Table 4 Comparison of serum levels of inflammatory factors between two groups($\bar{x}\pm s$)

Groups	n	CRP(mg/L)		IL-6(ng/L)		TNF- α (μ g/L)	
		Before treatment	After treatment	Before treatment	After treatment	Before treatment	After treatment
Observation group	60	14.11± 4.26	5.70± 1.87*	333.29± 35.92	218.98± 16.67*	3.87± 0.88	2.90± 0.60*
Control group	60	13.41± 3.89	8.11± 2.12*	340.12± 30.12	259.31± 22.08*	3.79± 0.81	3.35± 0.69*
t	-	0.940	6.603	1.129	11.292	0.518	3.812
P	-	0.349	0.000	0.261	0.000	0.605	0.000

Note: compared with before treatment, * $P<0.05$.

2.4 两组患者不良反应发生率比较

8.33%(5/60)比较差异无统计学意义($P>0.05$),见表5。

观察组不良反应发生率为13.33%(8/60),与对照组的

表5 两组患者不良反应发生率比较[n(%)]

Table 5 Comparison of incidence of adverse reactions between two groups[n(%)]

Groups	n	Nausea and vomiting	Rash	Dysuria	Diarrhea	Total incidence
Observation group	60	2(3.33)	3(5.00)	2(3.33)	1(1.67)	8(13.33)
Control group	60	2(3.33)	1(1.67)	2(3.33)	0(0.00)	5(8.33)
χ^2						0.776
P						0.378

3 讨论

溃疡性结肠炎作为一种非特异性的炎性疾病,临床表现为肠道黏膜的持续性高炎症状态,对患者的肠腔黏膜有严重的损伤^[15,16]。由于溃疡性结肠炎的发病原因较多,病情影响因素较为复杂,使得该病的临床治疗难度增大^[17,18]。目前,常用的抗菌药

物仅仅通过对症治疗来缓解患者的炎症症状,对于溃疡性结肠炎难以达到根治的目的,使得患者在药物治疗后仍然存在复发的可能^[19-21]。因此,对症治疗方式仍然有提高的空间。近些年,相关研究人员对于溃疡性结肠炎的发病原因、发病机制的不断深入研究,发现肠道菌群的组成及比例在溃疡性结肠炎的病情发生及进展过程中发挥重要作用,当患者的肠道菌群紊乱时,在

肠道有害细菌的作用下肠道内的食物残渣异常发酵,产生有害物质对患者肠腔及黏膜造成损伤,出现腹痛、腹泻、便血等症状,导致溃疡性结肠炎的发生甚至加重病情^[22-24]。因此,通过对患者肠道菌群失调的治疗,可进一步提高溃疡性结肠炎的治疗效果。微生态制剂是治疗肠道菌群失调的常用药物,临床应用显示对肠道菌群比例的调节和维持肠道菌群的稳态有很好的疗效^[25,26],这对溃疡性结肠炎的治疗提供了新的思路。

观察组临床治疗的总有效率为 93.33%(56/60),显著高于对照组的 80.00%(48/60)(P<0.05),说明采用丽珠肠乐联合柳氮磺胺吡啶治疗溃疡性结肠炎疗效优于柳氮磺胺吡啶单独治疗,此外,治疗后两组患者 Sutherland 指数评分、肠道菌群评分、肠镜评分均低于治疗前,且观察组低于对照组(P<0.05),这是因为丽珠肠乐是双歧杆菌活菌胶囊,患者服用后在肠道处可产生乳酸、乙酸,降低肠道病灶处的 pH 值,抑制有害细菌的大量繁殖,并增加肠道益生菌的比例,调整肠道菌群比例,改善患者的肠道菌群失调症状^[27]。并且,该药的应用还可与厌氧菌结合在肠黏膜表面形成生物屏障,阻止致病菌的侵袭,从而缓解患者结肠炎症状^[28]。也有研究显示^[29],丽珠肠乐与柳氮磺胺吡啶合用的疗效增强是因为丽珠肠乐通过调节肠道菌群比例,增加益生菌的比例,促进肠腔内柳氮磺胺吡啶分解成活性代谢物 5-氨基水杨酸,而 5-氨基水杨酸是发挥药效的活性物质,因此进一步提高疗效。在两组患者炎症因子水平比较中,治疗后两组患者 CRP、IL-6、TNF- α 水平均低于治疗前,且观察组低于对照组(P<0.05),表明丽珠肠乐联合柳氮磺胺吡啶治疗能够进一步降低患者的血清炎症因子水平,CRP、IL-6、TNF- α 均为机体内典型的炎症反应因子,其水平的升高表明患者的炎症反应越严重,丽珠肠乐通过对肠道菌群比例的调节,增强益生菌含量,提高肠道的屏障功能和免疫功能,从而降低患者的炎症反应,使得 CRP、IL-6、TNF- α 水平降低^[30]。本次研究亦表明观察组不良反应发生率为 13.33%(8/60),与对照组的 8.33%(5/60)比较差异无统计学意义(P>0.05),表明丽珠肠乐和柳氮磺胺吡啶的合用安全性良好,未增加不良反应发生率。

综上所述,与柳氮磺胺吡啶单独治疗相比,柳氮磺胺吡啶与丽珠肠乐联用治疗溃疡性结肠炎的疗效更为显著,对患者的症状缓解更为彻底,降低 CRP、IL-6、TNF- α 水平,且不产生用药安全性问题,可为溃疡性结肠炎的治疗提供新的思路。

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