

doi: 10.13241/j.cnki.pmb.2015.12.031

替吉奥联合伊立替康治疗晚期结肠癌的临床研究

金军 陈敬生 孟平 许浩 杨文丰

(湖北省鄂州市中心医院肿瘤科 湖北 鄂州 436000)

摘要目的:比较替吉奥联合伊立替康与替吉奥单药治疗晚期结肠癌的临床疗效。**方法:**选取2011年3月~2012年3月我院收治的晚期结肠癌患者90例,按照随机数字表法将患者分为研究组和对照组,每组45例,研究组给予替吉奥联合伊立替康,对照组给予替吉奥单药治疗,比较两组近期疗效、远期疗效和不良反应。**结果:**研究组的总有效率51.1% (23/45)显著高于对照组的26.7% (12/45),两组比较差异具有统计学意义($\chi^2=13.281$, $P=0.017$);研究组中位进展时间和中位生存时间均显著长于对照组,两组比较差异具有统计学意义($t=9.029$, 10.412 , $P=0.021$, 0.019);两组中性粒细胞减少和腹泻比较差异具有统计学意义($\chi^2=11.517$, 12.041 ; $P=0.023$, 0.019)。**结论:**替吉奥联合伊立替康治疗晚期结肠癌较单用替吉奥具有更好的治疗效果,值得临床推广应用。

关键词:晚期结肠癌;替吉奥;伊立替康;疗效

中图分类号:R735.3 文献标识码:A 文章编号:1673-6273(2015)12-2327-03

The Clinical Research of Gio Combined with Irinotecan in Treatment of Advanced Colorectal Cancer

JIN Jun, CHEN Jing-sheng, MENG Ping, XU Hao, YANG Wen-feng

(Department of oncology, Ezhou Central Hospital of Hubei Province, Ezhou, Hubei, 436000, China)

ABSTRACT Objective: To compare the clinical efficacy of Gio combined with irinotecan and monotherapy of Gio in treatment of advanced colorectal cancer. **Methods:** 90 cases of advanced colorectal cancer were selected from our hospital from March 2011 to March 2012, and they were divided into the study group and the control group according to the random number table, with 45 cases in each group. The study group were treated with Gio combined with irinotecan, and the control group were treated with Gio alone, the short-term effect, long-term efficacy and adverse reactions of two groups were compared. **Results:** The total efficiency of the study group was 51.1% (23/45), significantly higher than 26.7% (12/45) of the control group, and the difference was statistically significant ($\chi^2=13.281$, $P=0.017$); The median progression time and median survival time of the study group were significantly longer than those of the control group, the differences were statistically significant ($t=9.029$, 10.412 , $P=0.021$, 0.019); Incidence of Neutropenia and diarrhea of the two groups showed statistically significant difference($\chi^2=11.517$, 12.041 ; $P=0.023$, 0.019). **Conclusion:** Gio combined with irinotecan had better efficacy in treatment of advanced colorectal cancer when compared with mono-therapy of Gio. It is worthy of clinical application.

Key words: Advanced colorectal cancer; Gio; Irinotecan monotherapy; Efficacy

Chinese Library Classification(CLC): R735.3 Document code: A

Article ID:1673-6273(2015)12-2327-03

前言

结肠癌是常见的恶性肿瘤之一,化疗是晚期结肠癌治疗的主要方法^[1],其中氟尿嘧啶是治疗结肠癌的基础,替吉奥的主要成分为氟尿嘧啶衍生物^[2]。许多研究发现,替吉奥联合伊立替康化疗用药晚期结肠癌的治疗具有较满意的效果,且两种药物联合用药较方便,可以显著改善患者临床症状,减少住院时间,进而延长患者的生命^[3,4]。本研究旨在比较替吉奥联合伊立替康与替吉奥单药治疗晚期结肠癌的临床疗效,现将结果报告如下。

1 资料与方法

1.1 一般资料

作者简介:金军(1975-),男,硕士,副主任医师,从事肺癌和消化道恶性肿瘤放化疗方面的研究,E-mail:jinjun333@126.com
(收稿日期:2014-08-30 接受日期:2014-09-23)

选取2011年3月~2012年3月我院收治的晚期结肠癌患者90例,所有患者均经病理确诊为复发或者转移的晚期患者。且预计生产期超过12周,既往未应用化疗或者辅助化疗治疗,并排除严重内科或者外科疾病,其他恶性肿瘤病史者、脑转移或者肝脏转移。按照随机数字表法将患者分为研究组和对照组,各45例。研究组男性27例,女性18例;年龄37~75岁,平均年龄(56.3±0.8)岁。对照组男性26例,女性19例,年龄36~75岁;平均年龄(57.2±1.1)岁。两组患者的年龄和性别比较均无显著差异($P>0.05$),具有可比性,研究经伦理委员会批准,所有患者均知情同意并签订知情同意书。

1.2 治疗方法

研究组:给予患者伊立替康(生产厂家:Aventis Pharma Dagenham,生产批号:H20090659)150 mg/m²加入到250 mL生理盐水中静脉滴注,替吉奥(生产厂家:山东新时代药业有限公司,生产批号:国药准字 H20080802)80 mg/d(面积小于1.25

m^2)、 $100mg/d$ (面积介于 $1.25-1.5 m^2$)和 $120 mg/d$ (面积大于 $1.5 m^2$),分2次服用,餐后服用,连续应用14 d,间隔7天,为1个疗程。对照组:给予患者替吉奥,用法用量均与研究组相同。两组均应用药物直到病情进展或者是不良反应不可耐受,且最多进行8个疗程治疗。

1.3 疗效评价

近期疗效根据WHO关于实体肿瘤客观疗效评价标准来评价^[5]:完全缓解(CR):是指所有可以测量的病灶均消失;部分缓解(PR):是指双径可以测量的病灶的最大两个垂直直径的乘积总和缩小超过50%;稳定(SD):是指减少少于50%或者是增大超过小于25%,且无新病灶;病情进展(PD):是指增大超

过25%或者是出现新的病灶。(总有效=CR+PR)。

1.4 统计学方法

全部数据均在SPSS17.0软件上统计,其中计量资料用($\bar{X} \pm S$)表示,应用t检验,计数资料应用 X^2 检验,检验标准以 $P<0.05$ 表示有统计学意义。

2 结果

2.1 两组近期疗效比较

由表1可知,研究组的总有效率51.1%(23/45)显著高于对照组的26.7%(12/45),两组比较差异具有统计学意义($X^2=13.281, P=0.017$)。

表1 两组近期疗效比较[n(%)]

Table 1 Comparison of the short-term effect between two groups[n(%)]

组别 Groups	例数 Cases	CR	PR	SD	PD	总有效 Total efficiency
对照组 Control group	45	5(11.1)	7(15.6)	18(40.0)	15(33.3)	12(26.7)
研究组 Study group	45	11(24.4)	12(26.7)	13(28.9)	9(20.0)	23(51.1) ^a

注:与对照组比较, $X^2=13.281, P=0.017$ 。

Note: compared with control group, $X^2=13.281, P=0.017$.

2.2 两组远期疗效比较

由表2可知,研究组中位进展时间和中位生存时间均显著

长于对照组,两组比较差异具有统计学意义($t=9.029, 10.412, P=0.021, 0.019$)。

表2 两组远期疗效比较(月, $\bar{x} \pm s$)

Table 2 Comparison of long-term efficacy between two groups(month, $\bar{x} \pm s$)

组别 Groups	中位进展时间 Median progression time	中位生存时间 Median survival time
对照组 Control group	4.5± 0.4	3.1± 0.8
研究组 Study group	7.2± 0.3a	17.3± 1.3a

注:与对照组比较, $t=9.029, 10.412, P=0.021, 0.019$ 。

Note: compared with control group, $t=9.029, 10.412, P=0.021, 0.019$.

2.3 两组不良反应比较

研究组恶心呕吐11例,腹泻5例,中性粒细胞减少5例,乏力7例,对照组不良反应轻微,恶心呕吐12例,腹泻2例,中性粒细胞减少1例,乏力8例,两组中性粒细胞减少和腹泻比较差异具有统计学意义($X^2=11.517, 12.041; P=0.023, 0.019$)。

3 讨论

晚期结肠癌患者预后一般较差,全身化疗是治疗的主要方法,能显著改善患者的生活质量,延长其生存时间,氟尿嘧啶联合伊立替康用于晚期结肠癌的治疗,并且其临床效果较好,已经取得国际上的认可,成为标准的治疗方案之一^[6-8]。随着人们对药物安全性和治疗依从性的关注度的增加,促使临床研发新型的口服氟尿嘧啶。替吉奥是一种新型口服制剂,是氟尿嘧啶的衍生物,主要由替加氟、奥替拉西钾和吉美嘧啶构成,口服以后替加氟可以在人体内缓慢的转变成5-氟尿嘧啶,起到抗

肿瘤的作用^[9]。替加氟还可以抑制胸苷酸合成酶,进而抑制脱氧尿苷酸,起到扰乱DNA合成的作用。吉美嘧啶主要分布于肝脏中,对5-氟尿嘧啶的代谢酶具有拮抗作用,进而增加5-氟尿嘧啶的浓度,增强其抗肿瘤的作用。该物质还可以减少5-氟尿嘧啶的代谢产物,进而减少其带来的副作用。奥替拉西钾口服以后可以选择性的分布在结肠和小肠,可以选择性的抑制5-氟尿嘧啶转化成5-FU MP,进而加强药物的抗癌作用^[10-13]。

伊立替康是一种DNA的拓扑异构酶I的抑制剂,可以诱导DNA单链发生破坏,进而阻断DNA的复制叉,使DNA的两条链重组受到阻碍,导致双链发生断裂,引起细胞死亡,最终起到治疗肿瘤的作用^[14-16]。有研究显示,伊立替康单独治疗晚期结肠癌的有效率大约为29%,伊立替康和氟尿嘧啶具有协同作用,而且不具有交叉耐药性^[17]。本研究发现,研究组的总有效率51.1%(23/45)显著高于对照组的26.7%(12/45),与相关研究结果一致^[4, 17],充分证实替吉奥联合伊立替康治疗晚期结肠癌相

比替吉奥单用效果好,能显著缓解患者的临床症状。且中位进展时间和中位生存时间均显著长于对照组,说明其远期疗效优越。伊立替康存在一定的不良反应,据研究^[18,19],其不良反应主要表现为中性粒细胞减少和迟发型的腹泻,迟发型的腹泻主要是剂量限制性的不良反应。该药物的消化道毒性较小。本研究发现,研究组恶心呕吐 11 例,腹泻 5 例,中性粒细胞减少 5 例,乏力 7 例,对照组不良反应轻微,恶心呕吐 12 例,腹泻 2 例,中性粒细胞减少 1 例,乏力 8 例,两组中性粒细胞减少和腹泻比较差异具有统计学意义,与 Wissing MD 等人研究结果一致^[20]。

综上所述,替吉奥联合伊立替康治疗晚期结肠癌相比替吉抗单药治疗具有较好的近期疗效和远期疗效,且用药方便,可以作为化学治疗的优化方案。但本研究的例数相对较少,需要继续扩大研究,进而为临床提供有利的证据。

参考文献(References)

- [1] 于洋.结肠癌围手术期的护理体会[J].辽宁医学院学报,2013,34(4): 89-90
Yu Yang. Nursing experience of colon cancer during peri operation period[J]. Journal of Liaoning Medical University, 2013, 34 (4): 89-90
- [2] Brenner H, Stock C, Hoffmeister M. Effect of screening sigmoidoscopy and screening colonoscopy on colorectal cancer incidence and mortality: systematic review and meta-analysis of randomised controlled trials and observational studies[J]. BMJ, 2014, 348: 2467
- [3] Luo Y, Tsuchiya KD, Il Park D, et al. RET is a potential tumor suppressor gene in colorectal cancer [J]. Oncogene, 2013, 32 (16): 2037-2047
- [4] Binefa G, Rodríguez-Moranta F, Teule A, et al. Colorectal cancer: From prevention to personalized medicine [J]. World J Gastroenterol, 2014, 20(22): 6786-6808
- [5] Nishihara R, Morikawa T, Kuchiba A, et al. A Prospective Study of Duration of Smoking Cessation and Colorectal Cancer Risk by Epigenetics-related Tumor Classification [J]. Am J Epidemiol, 2013, 178(1): 84-100
- [6] Luo Y, Kaz AM, Kanngurn S, et al. NTRK3 Is a Potential Tumor Suppressor Gene Commonly Inactivated by Epigenetic Mechanisms in Colorectal Cancer[J]. PLoS Genet, 2013, 9(7): e1003552
- [7] Park HS, Yeo HY, Chang HJ, et al. Dipeptidyl Peptidase 10, a Novel Prognostic Marker in Colorectal Cancer [J]. Yonsei Med J, 2013, 54 (6): 1362-1369
- [8] Lotti F, Jarrar AM, Pai RK, et al. Chemotherapy activates cancer-associated fibroblasts to maintain colorectal cancer-initiating cells by IL-17A[J]. J Exp Med, 2013, 210(13): 2851-2872
- [9] Chawla N, Butler EN, Lund J, et al. Patterns of Colorectal Cancer Care in Europe, Australia, and New Zealand [J]. J Natl Cancer Inst Monogr, 2013, 16(46): 36-61
- [10] Pericleous M, Mandair D, Caplin ME. Diet and supplements and their impact on colorectal cancer [J]. J Gastrointest Oncol, 2013, 4 (4): 409-423
- [11] Panczyk M. Pharmacogenetics research on chemotherapy resistance in colorectal cancer over the last 20 years [J]. World J Gastroenterol, 2014, 20(29): 9775-9827
- [12] Chen PY, Ozawa T, Drummond DC, et al. Comparing routes of delivery for nanoliposomal irinotecan shows superior anti-tumor activity of local administration in treating intracranial glioblastoma xenografts[J]. Neuro Oncol, 2013, 15(2): 189-197
- [13] McGregor LM, Stewart CF, Crews KR, et al. Dose escalation of intravenous irinotecan using oral cefpodoxime:a phase I study in pediatric patients with refractory solid tumors [J]. Pediatr Blood Cancer, 2012, 58(3): 372-379
- [14] Furman WL, McGregor LM, McCarville MB, et al. A Single-Arm Pilot Phase II Study of Gefitinib and Irinotecan in Children with Newly Diagnosed High-Risk Neuroblastoma [J]. Invest New Drugs, 2012, 30(4): 1660-1670
- [15] Lewis AL, Holden RR, Chung ST, et al. Feasibility,safety and pharmacokinetic study of hepatic administration of drug-eluting beads loaded with irinotecan (DEBIRI) followed by intravenous administration of irinotecan in a porcine model [J]. J Mater Sci Mater Med, 2013, 24(1): 115-127
- [16] Seymour MT, Brown SR, Middleton G, et al. Panitumumab and irinotecan versus irinotecan alone for patients with KRAS wild-type, fluorouracil-resistant advanced colorectal cancer (PICCOLO):a prospectively stratified randomised trial [J]. Lancet Oncol, 2013, 14 (8): 749-759
- [17] Shiozawa T, Tadokoro J, Fujiki T, et al. Risk Factors for Severe Adverse Effects and Treatment-related Deaths in Japanese Patients Treated with Irinotecan-based Chemotherapy: A Postmarketing Survey[J]. Jpn J Clin Oncol, 2013, 43(5): 483-491
- [18] Wang Y, Shen L, Xu N, et al. UGT1A1 predicts outcome in colorectal cancer treated with irinotecan and fluorouracil [J]. World J Gastroenterol, 2012, 18(45): 6635-6644
- [19] Cantor D. Between Prevention and Therapy: Gio Batta Gori and the National Cancer Institute's Diet, Nutrition and Cancer Programme, 1974-1978[J]. Med Hist, 2012, 56(4): 531-561
- [20] Wissing MD, Mendonca J, Kim E, et al. Identification of cetrimonium bromide and irinotecan as compounds with synthetic lethality against NDRG1 deficient prostate cancer cells [J]. Cancer Biol Ther, 2013, 14(5): 401-410