



首页 期刊概况 编委会 期刊内容 特邀审稿 投稿指南 出版发

7~12.HLA半相合外周血活化干细胞治疗晚期实体瘤的疗效[J].韩 颖,于津浦,李 慧,任宝柱,曹 水,张迺宁,安秀梅,任秀宝.中国肿瘤生物治疗杂志,2010,17(1)

HLA半相合外周血活化干细胞治疗晚期实体瘤的疗效 点此下载全文

韩 颖 于津浦 李 慧 任宝柱 曹 水 张迺宁 安秀梅 任秀宝

辽宁医学院 辽宁 锦州 121001; 天津 市肿瘤防治重点实验室 天津医科大学附属肿瘤医院 生物治疗科, 天津市 300060; 天津市肿瘤防治重点实验室 天津医科大学附属肿瘤医院 生物治疗科, 天津市 300060

基金项目: 国家"十五"科技攻关引导项目资助(No. 2005BA740C); 天津市科技创新项目资助(No. 06FZZDSF01500)

DOI: 10.3872/j.issn.1007-385X.2010.1.002

摘要:

目的:观察HLA半相合外周血活化干细胞(HLA haploidentical peripheral blood stem cells, haplo PBSCs)对晚期难治性实体瘤患者的临床抗肿瘤疗效以及不良反应。方法:入组42例全部为2004年10月至2007年10月天津医科大学肿瘤医院生物治疗科收治的晚期难治性恶性肿瘤患者(所有入组患者均知情同意,试验工作经医院伦理委员会批准),其中卵巢癌12例,肾癌9例,肺癌8例,乳腺癌8例,结肠癌2例,胃癌2例,恶性黑素瘤1例。供者为患者健康直系亲属,进行haplo PBSCs的动员、采集和体外rhIL 2活化。经HLA半相合外周血干细胞治疗后,分别通过CT/PET CT检查、RESIST标准、KPS评分、临床症状缓解率等指标来评估HLA半相合外周血干细胞的临床疗效及不良反应情况。结果:42例患者接受1个疗程治疗后,全体患者中位无进展生存期(PFS)为6个月,临床获益率(CR+PR+SD)为73.8%;患者生活质量总获益率为76.2%,生活质量评分(KPS)较治疗前平均提高20分(0~30分)。其中,KIR不相合方向为GVH组的临床获益率、无进展生存期、生活质量总获益率均显著优于HVG(或相合)组\[94.1% vs 60.0%,(13.4±1.3) vs (8.0±0.9)个月,89.5% vs 65.2%,均 P <0 05 \],供受者关系为母子/女组的治疗有效率、患者生存期和生活质量均显著优于父子/女组(均 P <0.05);肾癌和卵巢癌的临床获益率分别为90.0%和81.8%,相对于其他类肿瘤类型高,在治疗反应性和敏感性上可能占优势。结论:HLA半相合外周血活化干细胞治疗后,机体产生非特异性的抗肿瘤作用,对改善患者症状和提高生活质量有显著效果。

关键词:晚期实体肿瘤 HLA半相合 外周血活化干细胞 免疫治疗

Clinical efficacy of activated-HLA haploidentical peripheral blood stem cells in treatment of advanced solid tumors <u>Download</u> Fulltext

HAN Ying YU Jin-pu LI Hui REN Bao-zhu CAO Shui ZHANG Nai-ning AN Xiu-mei REN Xiu-bao

Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin Medical University, Tianjin Medical University, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Prevention and Therapy of Tianjin; Department of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Cancer Biotherapy, Affiliated Tumor Hospital, Tianjin Medical University, Tianjin 300060, China; Key Laboratory of Canc

Fund Project: Project supported by the National "the 10th Five Years Plan" of Science and Technology Key Program of China (No. 2005BA740C), and the Science and Technology Innovation Program of Tianjin (No. 06FZZDSF01500)

Abstract:

Objective: To evaluate the anti tumor and side effects of activated HLA haploidentical peripheral blood tem cells (haplo PBSCs) in the treatment of advanced refractory solid tumor patients. Methods: Forty two patients with advanced refractory tumor, who were diagnosed in our hospital from Oct. 2004 to Oct. 2007, were enrolled in this study (all patients signed informed consent), including 12 with ovarian cancer, 9 with renal cancer, 8 with lung cancer, 8 with breast cancer, 2 with colon cancer, 2 with gastric cancer, and 1 with melanoma. The donors were healthy direct relatives of the patients; the donors' haplo PBSCs were mobilized, collected, and activated by rhIL 2 in vitro.

The clinical efficacy and side effects of haplo PBSCs therapy were assessed by CT/PET CT scanning, RESIST standard, KPS score, and clinical response rates, etc. Results: All 42 patients received one episode of haplo PBSCs treatment. The progression free survivals (PFS) were 6 months and the clinical beneficial rate (CR+PR+SD) was 73.8%. The beneficial rate of life quality was 76.2% and the KPS increased by 20 (0 30) points on average after haplo PBSCs treatment. The patients with K1R unmatched in GVH direction had better outcomes than those with K1R matched or K1R unmatched in HVG direction (P <0 05), and the clinical beneficial rate, PFS and total beneficial rate were 94.1% vs 60.0%, (13.4 ± 1.3) vs $(8\ 0\pm0\ 9)$ months, and 89.5% vs 65.2%, respectively (all P <0.05). The donor/recipient relation as the mother/child had a better outcome than that as the father/child (P <0.05). Patients with renal cancer or ovarian cancer had better outcomes than those with other cancers, with clinical beneficial rates being 90.0% and 81.8%, respectively. Conclusion: Activated haplo PBSCs therapy can induce non specific anti tumor effect, and improve the clinical symptom and life quality of advanced tumor patients.

Keywords: advanced solid tumor HLA haploidentical activated peripheral blood stem cell immunotherapy