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靶向免疫治疗联合放射治疗在晚期黑色素瘤中的研究进展

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Research progress in targeted immunotherapy combined with radiotherapy for stage III/IV melanomas

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摘要

黑色素瘤是皮肤癌中最具侵袭性、死亡率较高的恶性肿瘤。I、II期黑色素瘤采取手术切除可完全治愈, III、IV期黑色素瘤应用传统的手术、放化疗方案治疗效果不理想, 预后差。近年来, 随着对III、IV期黑色素瘤治疗方案的探索, 靶向免疫治疗取得了显著疗效。靶向免疫药物可抑制负性调节因子, 增强全身抗肿瘤免疫效应。放疗在杀死局部肿瘤的同时, 也可增强全身免疫应答。近期研究发现, 靶向免疫联合放射治疗可增强对肿瘤局部和远处的控制作用, 延长患者总体生存期, 两者联合治疗优于单一治疗方案。本文对上述研究领域的进展进行综述。

关键词: 靶向免疫治疗, 放射治疗, 黑色素瘤, 联合治疗

Abstract:

Melanoma is the most aggressive and lethal malignant tumor in skin cancers. Operation resection is used to treat stage I/II melanomas, but traditional operation, chemotherapy, and radiotherapy inflicts adverse effects on late-stage melanomas. Stage III/IV melanomas are some of the most ineffectively treated tumors with poor prognosis. As a cancer treatment, targeted immunotherapy inhibits negative regulatory factors and enhances systemic antitumor immune effects. Radiotherapy not only kills tumor cells, but also enhances systemic immune responses. Recent studies showed that targeted immunotherapy combined with radiotherapy can promote control on local and distant tumors and prolong overall survival. The synergistic effects of these two therapies are superior to a single therapy. This review summarized the progress on these research fields.

Key words: targeted immunotherapy radiotherapy melanoma therapeutic alliances

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