

# 重离子辐照对荷颊囊癌金黄地鼠血清IL-2水平的影响 [\(点击查看pdf全文\)](#)

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Title: Effect of heavy ion beam irradiation on serum interleukin-2level in a hamster model bearing cheek pouch carcinoma

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摘要: 目的通过检测重离子辐照前后荷颊囊癌金黄地鼠外周血清中白细胞介素-2 (IL-2) 水平变化, 探讨重离子束辐照对机体免疫状态的影响。方法应用酶联免疫吸附法检测40例荷瘤组及8例空白对照组经重离子束辐照前后血清IL-2水平变化。结果荷瘤(0Gy)组血清IL-2水平为 $0.16 \pm 0.01$ , 较空白对照组水平低; 而荷瘤辐照组经4、6、8、12Gy辐照后IL-2水平分别 $0.18 \pm 0.04$ 、 $0.22 \pm 0.05$ 、 $0.15 \pm 0.03$ 和 $0.13 \pm 0.04$ ; 辐照后血清IL-2水平先出现升高趋势, 至6Gy组时达到最高, 之后随辐照剂量的增大而降低, 至12Gy时仍低于空白对照组水平。结论重离子束辐照对荷颊囊癌金黄地鼠血清中IL-2表达水平产生影响, 存在一定的量效关系。

Abstract: Objective To investigate the changes in serum interleukin-2(IL-2) level in a hamster model bearing cheek pouch carcinoma after heavy ion beams irradiation. Methods The serum levels of IL-2 were detected using enzyme-linked immunosorbant assay in 40 hamsters bearing cheek pouch carcinoma before and after exposure to heavy ion beam irradiation, with 8 normal animals as control. Results Serum IL-2 level was  $0.16 \pm 0.01$  in the tumor-bearing hamsters before the irradiation, lower than that in the control group. After heavy ion beams irradiation at 4, 6, 8, and 12Gy, serum IL-2 levels in the tumor-bearing hamsters were  $0.18 \pm 0.04$ ,  $0.22 \pm 0.05$ ,  $0.15 \pm 0.03$ , and  $0.13 \pm 0.04$ , respectively, showing a peak level after irradiation at 6Gy and an obvious decrease following irradiation at greater doses. Conclusion Heavy ion beam irradiation causes alterations in serum IL-2 level with a dose-effect relation between them in hamsters bearing cheek pouch carcinoma.

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