

60Co事故受照人员远期细胞遗传学效应观察 Late Observation of Cytogenetics in Three Cases Exposed to 60Co Radiation Accident

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摘要 对三例钴源事故受照人员照后6(7)年和11(12)年两次细胞遗传学随访结果表明, 两次随访受照者染色体畸变率分别为4.29%和3.63%, 均显著高于对照组(P<0.01), 但两次随访间未见显著差异(P>0.05), 而且第一次随访染色体畸变是以双+环和无着丝粒断片为主, 第二次随访是以易位、缺失和倒位为主; 两次随访受照者微核率分别为4.17%和1.17%, 第二次随访微核率明显下降(P<0.01)。提示随着照后时间推移, 非稳定性染色体畸变逐渐丢失, 稳定性染色体畸变仍保持在较高水平。

Abstract: The analyses of chromosome aberrations and micronuclei in peripheral blood lymphocyte were performed in 3 cases exposed to 60Co radiation accident in 6(7) years and 11(12) years after irradiation. The results show that the frequencies of chromosome aberrations in exposed cases were 4.29% in 6(7) years and 3.63% in 11(12) years after irradiation, respectively, and the difference was not significant in the two times follow-up study. Most of the chromosome aberrations were acentric and dicentric chromosomes in first time follow-up study, and translocation, deletion and inversion chromosomes in second time follow-up one. The frequencies of micronuclei in exposed group were 4.17% and 1.17% in the two times follow-up study, respectively, and the rates of micronuclei in second time follow-up study were much lower than that in first one. The results indicated that the unstable type aberrations were gradually lost as time goes on, and the level of stable type aberration was of high degree.

关键词 [60Co 事故照射](#) [染色体畸变](#) [微核](#) [远期效应](#) **Key words** [60Co](#) [Accidental exposure](#) [Chromosome aberration](#) [Micronucleus](#) [Late effect](#)

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