

食管癌患者放射敏感性与微核指标的研究

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摘要 应用末稍血微核测试法, 采用自身对照, 系统地观察了100例食管癌病人在放疗过程中微核率的动态变化, 分析了个体放射敏感性, 并结合临床疗效进行预测的探讨。获得如下结果: (1)在放疗过程中, 随着照射累积剂量的增加, 全组平均微核率呈正比例增加, 配得直线方程为 $y=0.6390-1-0.3772D$; (2)本组病员对放射线的反应各不相同, 大致可分为四种类型, 他们的放射敏感性顺序是弱型。 $(y=0.1838+0.1285D)$ < 一般型。 $(y=0.3908+0.3413D)$ < 抛物线型。 $(y=0.8997-1--0.8408D-D.0846D)$ 敏感型。 $y=(10-0.0332+0.1730D)$ 。男性病员较女性对射线作用更敏感; (3)放疗效果与微核率的改变无明显相关。

关键词

分类号

Study on Radiosensitivity of the Patients With Oesophageal Cancer By Micronucleus Test

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Abstract

<P>It is of theoretical and practical importance to study individual differences of radiosensitivity. We have investigated dynamic changes in frequency of micronucleus (MNF) in peripheral blood lymphocytes of patients with oesophageal cancer before radio·therapy and during radiotherapy by micronucleus test established by our laboratory. According to those, results, individual radiosensitivities and relationship between it and clinical curative effects have been analysed. Main results of study are given ,as follows:
 (1) Average MNF of 100 cases with oesophageal cancer is linear with irradiated cumulative doses, its equation is $y=0.6390+0.3772D$ (y means MNF, D irradiated cumulative doses). </P>

<P> (2) 100 patients could be divided into four groups according to the type of responses to irradiation (i.e. changes in MNTF) , the order of radiosensitivity might be:
 The type of sensitive response. $y=10-0.0332+1730D$;
 The type of parabolic response $y=0.8997+0.8408D-0.0846D^2$;
 The type of ordinary response ($y=0.3908+0.3413D$);
 The type of weak response. $y=(0.1838+0.1285D)$;
 Male patients are more sensitive. to r-rays than female.
3. No significant correlation between clinical curative effect and 1VIN in the 100patients observed.</P>

Key words

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