### 论著

### 137 Cs 事故受照人员外周血淋巴细胞微核的随防观察

白玉书1 曹家珍2 黄绮龙1 张秀霞1 关树荣1 柴 文1 许绵文3 李敬 君3 王 华2 段汝萍4

1 卫生部工业卫生实验所 北京100088 2 黑龙江省卫生防疫站 3 哈尔滨医科大学 4 牡丹江市职业病防治所 收稿日期 修回日期 网络版发布日期:

摘要 本文报道了39 例在5 个月内多次受到137Csγ射线源照射(累积当量剂量为5~2105mSv),受照人员外周血淋巴细胞微核的随防观察。结果表明,照后1 年直接法微核率受照和对照组接近,差异无显著性意义。此时,常规培养法微核率,受照组高于对照组,差异接近显著(011 > P > 0105),并且微核率与剂量之间存在相关关系。在照后5年,采用CB 法测试微核,结果受照组微核率明显高于对照组,差异有非常显著性意义(P < 0101)。表明CB 法提高了微核测试的灵敏度和可靠性。

关键词 137Cs 事故照射 微核 松胞素-B 随访观察

# A FELLOW2UP STUDY ON MICRONUCLEI OF PERIPHERAL BLOOD LYMPHOCYTE IN PERSONS EXPOSED TO 137CS RADIATION ACCIDENT

Bai Yushu1 , Cao J iazhen2 , Huang Qilong1 , Zhang Xiuxia1 , Guan Shurong1 , Chai Wen1 , Xu Mi2 anwen3 , Li J ingjun3 , Wang Hua2 , Duan Ruping4

1L aboratory of Indust rial Hygiene , Minist ry of Heal th , Beijing 100088 1L aboratory of Indust rial Hygiene , Minist ry of Heal th , Beijing 100088 2Heilongjiang Province Hygiene and Epidemic S tation , 3 Haerbin Medical University 4Mudanjiang City Instit ute of Occupational Disease

Abstract This paper resport s micronuclei of peripheral blood lymphocyte of 39 cases exposed to 137 Cs $\gamma$ 2ray in a period of 5 months. The accumulated equivalent doses were 5  $\sim$  2105mSv. The result s show that micronucleus f requencies in the both groups of exposed and cont rol were very near . The difference was not significant . At that time , micronucleus f requencies using method of routine culture in exposed group were higher that those in the cont rol one , and they had correlated relationship with accumulated doses. At 5th year after irradiation , micronuclei were examined by cytokinesis2block micronucleus method. The result s show that the f requencies of micronucleus in exposed group were higher than those in the cont rol. The difference was very significant . It indicated that CB method increased precision and reliability for micronucleus assay.

**Keywords** 137 Cs accidental radiation micronucleus cytochalasin2B follow2up

#### 扩展功能

## 本文信息

- ▶ Supporting info
- ▶ [PDF全文](151k)
- ▶[HTML全文](0k)
- ▶参考文献

服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ► Email Alert

相关信息

- ▶ 本刊中 包含"137Cs"的 相关文章
- ▶本文作者相关文章
- · 白玉书 曹家珍 黄绮龙 张秀霞 <u>关</u>树荣 柴文 许绵文 李敬君 王华 <u>段</u> <u>汝</u>華