

论著

碳酸锂对抗黄曲霉素B1 诱导大鼠肝癌前病变过程中P21、Bcl - 2 蛋白的表达

张爱华¹ 洪峰¹ 黄晓欣²

¹贵阳医学院预防医学系 贵阳 550004 ²解放军第44 医院 贵阳 550009

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摘要 采用肝癌发生的动物模型,观察了碳酸锂(Li₂CO₃) 对抗黄曲霉素B1 (AFB₁) 诱发的大鼠肝癌前病变的组织形态学变化及其P21、Bcl - 2 蛋白的表达状况。Wistar 大鼠144 只随机分为A、B、C、D 4 组,分别为阴性、阳性对照及Li₂CO 同时给药和Li₂CO₃ 先期给药组。于实验第6、9、10wk 分批断头处死动物,取动物的肝脏进行组织形态学检查及免疫组织化学染色。结果发现:C、D 两组动物健康状况明显改善,肝癌前病变程度明显减轻;P21、Bcl - 2 蛋白在诱癌早期(实验第6wk) 即有表达,第9、10wk 显著提高,呈B 组> C 组> D 组> A 组的趋势,与各组肝脏组织形态学变化一致。提示:Li₂CO₃ 具有明显地对抗和预防化学诱导肝癌的作用 P21、Bcl - 2 蛋白的动态检测有助于肝癌的早期发现及判断预后。

关键词 [P21](#) [Bcl - 2](#) [碳酸锂](#) [大鼠肝脏](#) [癌前病变](#)

EXPRESSION OF P21 AND Bcl - 2 PROTEIN IN AFB₁-INDUCED RAT HEPATIC PUTATIVE PRENEOPLASTIC LESIONS ALLEVIATED BY Li₂CO₃

Zhang Ai hua¹ , Hong feng¹ , Huang Xi aoxin²

¹Department of Prevention Medicine , Guiyang Medical College , Gui yang 550004 , 244 th Hospital of PL A Guiyang 550009

Abstract In order to observe the histopathological change and the expression of P21 and Bcl - 2 protein in Aflatoxin B1 (AFB₁)²induced rat hepatic putative preneoplastic lesions alleviated by lithium carbonate (Li₂CO₃) . 144 healthy Wistar rat s(155g~175g) were divided randomly into four groups (A , normal control group ; B , positive control group ; C , group treated with Li₂CO₃ simultaneously ; D , group pretreated with Li₂CO₃) and sacrificed in batches in the 6th , 9th or 10th week of the experiment . Histopathological assay and immunohistochemical assay of P21 and Bcl - 2 protein was made on hepatic. The result showed that the severity of preneoplasia alleviated in Group C and Group D , and that , coinciding with the histopathological discoveries , a tendency of "Group B > Group C > Group D > Group A" could be found in observation of P21 and Bcl - 2 protein expressive , which occurred in the early stage (the 6th week) and significantly increased in the 9th , 10th week. It suggested that Li₂CO₃ has definite anticarcinogenic and preventive effect on hepatoma induced by chemicals and the continual analysis of P21 and Bcl - 2 protein may help early discovery and prognostic judgment of hepatoma.

Keywords [P21](#) [Bcl - 2](#) [Li₂CO₃](#) [Rat hepatic](#) [Preneoplastic lesion](#)

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