

论著

砷中毒患者病变皮肤中端粒酶活性与PCNA表达及其意义

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摘要 背景与目的: 探讨端粒酶活性与增殖细胞核抗原(PCNA)在燃煤砷污染致皮肤病变中的作用及相互关系。材料与方法: 采用端粒重复序列扩增法(TRAP)和免疫组化ABC法检测29例砷中毒患者病损皮肤及10例正常皮肤组织中的端粒酶活性和PCNA表达情况。结果: 砷中毒皮肤癌变组和一般病变组(皮炎、角化过度 and 色素增多等)端粒酶活性的阳性率分别为90.9%和0.0%, 其PCNA阳性表达率分别为90.9%和16.7%, 皮肤癌变组和一般病变组间差异有统计学意义($P<0.01$); 10例正常皮肤组织端粒酶和PCNA均为阴性; 端粒酶活性与PCNA表达呈正相关($r=0.659$, $P<0.01$), 二者具有一致性($P>0.05$), 一致率为82.8%。结论: 端粒酶活性增加及PCNA表达在砷致皮肤癌变过程中起重要作用, 两者的改变具有一致性, 两指标的联合检测对砷中毒性皮肤癌的判断具有一定的参考价值。

关键词 [端粒酶](#); [增殖细胞核抗原](#); [砷中毒](#); [煤](#); [病变皮肤](#)

The Significance of Telomerase Activation and PCNA Expression in Skin of Arseniasis Patients

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Abstract BACKGROUND & AIM: To explore the significance and interaction of telomerase activation and expression of proliferating cell nucleus antigen (PCNA) in arsenic_induced skin lesion from coal burning. **MATERIALS AND METHODS:** Using telomeric repeat amplification protocol(TRAP) assay and ABC immunohistochemical technique, the level of telomerase activation and PCNA expression were evaluated in 29 skin lesions of arseniasis patients and 10 cases of normal skin. **RESULTS:** The positive rates of telomerase in cancerous skins and skins with general pathological changes(dermatitis, hyperkeratosis and pigmentation) were 90.9% and 0.0%, respectively. In these 2 groups, the positive rates of PCNA were 90.9% and 16.7%, respectively. The differences in telomerase and PCNA rates between the 2 skin groups were both statistically significant($P<0.01$). The telomerase and PCNA were negative in 10 cases of normal skin. There was a positive relationship between telomerase activation and PCNA expression($r=0.659$, $P<0.01$). The two indexes had concordance ($P>0.05$) and the rate was 82.8%. **CONCLUSION:** The increase of telomerase activation and PCNA expression were important during the course of arsenic_induced skin carcinogenesis. There was concordance between the two. Combined measurements of telomerase activation and PCNA expression would be helpful in the diagnosis of skin carcinoma induced by arsenic.

Keywords [telomerase](#) [proliferating cell nucleus antigen](#) [arseniasis](#) [coal](#) [skin lesion](#)

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