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Effects of Hexamethylene Bisacetamide on P53 Protein Expression of MEC-1 Cell Line and Cell Differentiation

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Abstract

Objective: To investigate the relationship between the differentiation of the mucopidermoid carcinoma cell line MEC-1 induced by HMBA and the expression of P53 protein. **Methods:** Effects of HMBA on the growth of MEC-1 cells in vitro were measured with MTT colorimetric assay, and the content of DNA in cells was assayed by using Feulgen's staining. The P53 protein expression of MEC-1 cells was detected with ABC immunohistochemistry with anti-mutant P53 protein antibody, and the distribution of cells in different differentiation phase was determined by flow cytometry. **Results:** HMBA inhibited the growth of MEC-1 cells in a dose-dependant and time-dependant manner, and HMBA-treated MEC-1 cells were arrested in the G1 phase and had a lower content of DNA and a lower level of P53 protein compared with the control group. **Conclusion:** The differentiation of MEC-1 cells induced by HMBA may be associated with the regulation of HMBA on the P53 protein expression and the cell differentiation cycle.

Key words: mucopidermoid carcinoma HMBA P53 protein cell differentiation cycle

牙龈出血为首发症状的白血病一例

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以牙龈出血为白血病的首发症状不常见, 作者报告 1 例。

患者张某, 男, 60 岁。主诉: 牙龈出血 1 个月加重 3 天。1 月前刷牙时牙龈有少量出血。经口腔洁治, 口服维生素 C 和麦迪霉素曾稍好转, 但刷牙和吃饭时仍有少量出血。3 天前, 出血量明显增多, 且自发出血, 遂来院就诊。全身检查: 无发热及淋巴结肿大, 心肺透视无明显异常, 肝脾轻度肿大, 胸骨轻微压痛, 前胸及双腋下皮肤有少量出血点。口腔检查: 全口牙龈红肿, 龈缘充血, 口臭, 轻触龈即出血, 量多, 尤以下前牙和后牙区为重。龈上、龈下结石不明显, $\frac{4}{17}$ / $\frac{4}{56}$ 缺失, 义齿修复, 无不良, 余牙松动 I°。实验室检查: 白细胞 $16.5 \times 10^9/L$, 幼稚细胞 0.45, 单核细胞未见增多, 巨噬细胞

减少。血红蛋白 $102 g/L$, 血小板 $98 \times 10^9/L$ 。骨髓涂片见细胞增生极度活跃, 幼稚细胞增多, 原始细胞占 48%。初步诊断: 急性白细胞病。处理: 全口洁治, 保持口腔卫生, 1.5% H₂O₂ 含漱。初步处理后转内科行综合治疗。最后诊断: 非淋巴细胞白血病。

白血病患者可出现牙龈红肿、溃疡和出血, 但以牙龈出血为其首发症状却罕见。本病例提示口腔医师对于无明显原因的牙龈红肿、出血, 应高度警惕它是否由血液系统疾病或其它疾病所引起, 以免延误治疗。

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