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Ki-67 在胸腹水的液基薄层细胞涂片中表达及意义

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Determination of Ki-67 Expression and Its Significance in Cell Smears of Pleural Effusion and Ascites using Thin-layer Cytology Test

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摘要

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摘要 细胞增殖抗原标记物 (Ki-67) 为细胞增殖的一个重要生物学指标, 本研究旨在探讨Ki-67在良、恶性胸腹水的液基细胞涂片中的表达差异及其临床意义。方法: 本实验收集恶性胸腹水标本49例作为恶性组, 良性胸腹水标本25例作为良性组。用液基薄层细胞学检查 (thin-layer cytology test, TCT) 法对所有标本进行制片后, 采用免疫组织化学染色法检测恶性组和良性组的涂片中Ki-67蛋白的表达, 在光学显微镜下观察并利用图像分析系统进行半定量分析。结果: 恶性组Ki-67表达的阳性率明显高于良性胸腹水组 ($P < 0.01$); 恶性组Ki-67阳性细胞平均标记指数 (MLI) 高于良性组 ($P < 0.05$); 恶性组Ki-67蛋白表达的相对含量明显高于良性组, 两组相比有显著性差异 ($P < 0.01$)。恶性组与良性组Ki-67表达分析显示两组间在性别、年龄、病史方面无显著性差异 ($P > 0.05$)。结论: Ki-67可作为恶性胸腹水诊断的一个新的生物标记物, 对鉴别良、恶性胸腹水有一定的参考价值。利用TCT方法, 有利于提高细胞制片质量, 便于胸腹水性质的判断。

关键词: Ki-67 胸水 腹水 液基薄层细胞制片 免疫组织化学染色

Abstract: This study aims to investigate the expression and significance of Ki-67 in their cell smears of pleural effusion and ascites, using the thin-layer cytology test. Methods: This study involved 49 and 25 cases of malignant and benign pleural and peritoneal effusions, respectively. Immunohistochemical staining method was used to detect Ki-67 expression in the cell smears of both malignant and benign groups after all samples underwent cell smearing via thin-layer cytology test under an optical microscope. Semi-quantitative analysis was performed using an image analysis system. Results: The antigen expression of Ki-67 positive cells of the malignant group was significantly higher than that of the benign group ($P < 0.01$). Moreover, the MLI of Ki-67 in the malignant group was higher than that in the benign group ($P < 0.05$). The relative protein content of the Ki-67 positive cells in the malignant group was also significantly higher than that in the benign group ($P < 0.01$). However, the Ki-67 expression in both groups were not significantly different in terms of gender, age, and illness history ($P > 0.05$). Conclusion: The Ki-67 expression in pleural effusion and ascites can be used as a new biomarker in the early diagnosis of malignant pleuroperitoneal effusions. The results of this study can help identify the clinical nature of pleural effusion and ascites. Thin-layer cytology test is also a convenient and effective method for identifying malignant pleural effusion and ascites.

Key words: Ki-67 Pleural effusion Ascites Thin-layer cytology test Immunohistochemical staining

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