

肿瘤防治

# 葡萄糖转运蛋白1和磷脂结合蛋白\_1在子宫内膜癌中的表达及意义

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**摘要** 背景与目的: 探讨葡萄糖转运蛋白1(GLUT1)和磷脂结合蛋白\_1(Annexin\_1)在子宫内膜癌组织中的表达情况及其与临床病理参数之间的关系。 材料与方法: 采用免疫组化S<sub>P</sub>法检测65例子宫内膜癌、27例非典型增生和21例增生期子宫内膜组织中GLUT1和Annexin\_1的表达。 结果: 在增生期子宫内膜、非典型增生、子宫内膜癌的 GLUT1阳性表达率分别为28.6%、59.3%、81.5%, 呈递增趋势, 组间两两比较, 差异均具有统计学意义(P<0.05); Annexin\_1阳性表达率分别为85.7%、55.6%、49.2%, 呈下降趋势, 其中子宫内膜癌与增生期子宫内膜比较差异有统计学意义(P<0.05)。 GLUT1高表达与子宫内膜癌的组织分级、肌层浸润深度有关(P<0.05), 与病理分期、淋巴结是否转移、组织学类型无关(P>0.05); Annexin\_1低表达与上述的临床病理参数皆无关(P>0.05)。子宫内膜癌中GLUT1与Annexin\_1呈负性相关(r=-0.540, P=0.000)。 结论: Annexin\_1低表达和GLUT1高表达可能对子宫内膜癌的发生和发展具有促进作用, 二者对子宫内膜癌早期诊断和预后预测有一定意义。

**关键词** [子宫内膜癌](#); [GLUT1](#); [Annexin\\_1](#); [免疫组化](#)

## Expression and Significance of Glucose Transporter 1 and Annexin\_1 in Endometrial Carcinoma

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**Abstract** BACKGROUND AND AIM: To explore the expression of glucose transporter1 (GLUT1) and Annexin\_1 in endometrial carcinoma, and investigate their correlations to clinicopathologic features of endometrial carcinoma. MATERIALS AND METHODS: The expression of GLUT1 and Annexin\_1 were examined in 65 specimens of endometrial carcinoma, 27 endometrial dysplasia and 21 proliferative endometria by S<sub>P</sub> immunohistochemistry. Their correlations to clinicopathologic features of endometrial carcinoma were analyzed. RESULTS: The positive expression rates of GLUT1 in proliferative endometrium, endometrial dysplasia and endometrial carcinoma were 28.6%, 59.3% and 81.5% respectively, showing an increasing trend. There was a significant difference between groups (P<0.05). The positive expression rates of Annexin\_1 in the above three groups were 85.7%, 55.6% and 49.2%, respectively. The rates were significantly lower in endometrial carcinoma than in normal endometrium (P<0.05). The higher expression of GLUT1 was correlated to histological grade and myometrial invasion, but not to pathologic stage, lymph node metastasis and histological type. The lower expression of Annexin\_1 was not correlated to any of those features. Negative correlation was found between GLUT1 and Annexin\_1 expression (r=-0.596, P=0.000). CONCLUSION: under-expression of Annexin\_1 and over-expression of GLUT1 may be involved in carcinogenesis and development of endometrial carcinoma. This may contribute to early diagnosis and prognostic evolution of endometrial carcinoma.

**Keywords** [endometrial carcinoma](#); [glucose transporter1](#); [Annexin\\_1](#); [immunohistochemistry](#)

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