

The Relationships between cyclin D1 Expression and Prognosis of Non-small Cell Lung Cancer

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
摘要

Background and objective cyclin D1 is a member of the cyclin family, and it has been proven that it played an important role in tumorigenesis, invasion and metastasis. We performed a retrospective study on the cyclin D1 expression in non-small cell lung cancer (NSCLC) according to the clinical characteristics. Methods One hundred fifteen postsurgical NSCLC patients were investigated. Immunohistochemistry was used to evaluate the cyclin D1 expression. Results Overall survival was significantly lower in patients with cyclin D1-high expression of tumors than those with cyclin D1 low expression of tumors ($\chi^2=5.132$, $P=0.023$). In early stage patients (stage I, II), the overall survival was significantly lower in patients with cyclin D1-high expression of tumors than those with cyclin D1-low expression of tumors ($\chi^2=6.863$, $P=0.009$). cyclin D1 status (hazard ratio=0.630; $P=0.035$), differentiation (hazard ratio=0.399; $P < 0.001$), and pTNM (hazard ratio=1.576; $P < 0.001$) to be independent prognostic factors for NSCLC patients. Specifically, the cyclin D1 status (hazard ratio=0.188; $P=0.008$) was a significant prognostic factor for patients with stage I NSCLCs. Conclusion cyclin D1 expression is an independent prognosis factor for postoperative patient in stage I, II NSCLCs.


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