

## Snail及N-cadherin蛋白在骨肉瘤中的表达及其与预后的关系

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### Expression and Prognosis Analysis of Snail and N-cadherin Protein in Osteosarcoma

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- 摘要
- 参考文献
- 相关文章

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#### 摘要 目的

观察Snail及N-cadherin蛋白在骨肉瘤中的表达, 探讨其在骨肉瘤发生发展、浸润转移的作用及其与预后的关系。方法采用免疫组织化学SP法检测38例骨肉瘤组织、20例骨软骨瘤组织中Snail及N-cadherin蛋白的表达。结果(1) Snail、N-cadherin蛋白在骨肉瘤中表达均高于它们在骨软骨瘤组织中的表达, 其差异有统计学意义( $\chi^2=27.375$ ,  $P<0.01$ ;  $\chi^2=21.849$ ,  $P<0.01$ ); (2)Snail和N-cadherin蛋白与骨肉瘤的软组织浸润、Enneking分期、肺转移有关( $P<0.05$ ), 而与性别、年龄、部位、Dahlin类型无关( $P>0.05$ ); Snail、N-cadherin蛋白在骨肉瘤中的表达呈正相关( $r=0.421$ ,  $P<0.05$ ); (3)骨肉瘤中Snail、N-cadherin蛋白阳性患者生存率均明显低于阴性患者, 其差异均有统计学意义( $P<0.05$ )。结论骨肉瘤组织中Snail蛋白及N-cadherin蛋白的高表达, 提示它对骨肉瘤的发生发展和浸润转移起重要作用并预示患者预后不良。

关键词: Snail N-cadherin 骨肉瘤 免疫组织化学 预后分析

#### Abstract: Objective

To research the expressions of Snail and N-cadherin in osteosarcoma and to explore their roles in the carcinogenesis and progression of osteosarcoma.MethodsImmunohistochemical assay(SP method) was used to detect the expressions of Snail and N-cadherin in 38 cases osteosarcoma tissues and 10 cases osteochondroma tissues.Results(1) Expression of Snail and N-cadherin in osteosarcoma was higher than that in osteochondroma,the comparative differences were significant( $\chi^2=27.375$ ,  $P<0.01$ , $\chi^2 =21.849$ ,  $P<0.01$ ).(2) Expression of Snail in osteosarcoma were concerned with soft tissue involvement,Enneking stage,and lung metastases;and the comparative differences were significant ( $P<0.05$ ).

However,the expression of Snail in osteosarcoma were irrelevant with gender,age and mass site ( $P>0.05$ ).The expression of N- cadherin was positively correlated with that of Snail( $r=0.421$ ,  $P<0.05$ ).(3) The survival rate of the patients with positive express of Snail and N-cadherin was significant lower than those with negative express of snail and N-cadherin protein in osteosarcoma;and the comparative differences were significant( $P<0.05$ ).ConclusionThe overexpression of Snail and N-cadherin in osteosarcoma means that they play synergetic roles in the process and metastases of osteosarcoma and poor prognosis.

Key words: Snail N-cadherin Osteosarcoma Immunohistochemical Prognosis

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