

PARP-1在舌鳞癌组织中的表达及意义

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Expression and Significance of Poly (ADP-ribose) Polymerase 1 in Oral Tongue Squamous Cell Carcinoma

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- 摘要
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摘要

目的

检测PARP-1在舌鳞癌中的表达水平,分析与舌鳞癌患者临床病理因素及预后的相关性,初步探讨PARP-1在舌鳞癌的预后价值。方法采用免疫组织化学法检测155例舌鳞癌组织及13例邻近正常舌组织的石蜡组织切片中PARP-1的表达水平,分析PARP-1的表达水平与舌鳞癌患者的临床病理因素及预后的相关性。结果155例舌鳞癌组织中,PARP-1阳性表达率为89.0%(138/155),其中58.1%(90/155)呈高表达,41.9%(65/155)呈低表达;13例邻近正常舌组织均无PARP-1表达,两者比较差异有统计学意义($\chi^2=64.815, P=0.000$)。PARP-1的表达水平与患者的T分期($\chi^2=10.841, P=0.002$)、N分期($\chi^2=8.962, P=0.007$)、病理分期($\chi^2=17.151, P=0.000$)呈正相关。PARP-1高表达者总生存时间($P=0.037$)与无瘤生存时间($P=0.026$)比低表达者短。结论PARP-1可能是促进舌鳞癌发生发展的癌基因,具有预测舌鳞癌预后的临床价值。

关键词: 舌鳞癌 PARP-1 复发 预后

Abstract:

Objective

To detect the expression level and prognostic value of poly(ADP-ribose) polymerase 1(PARP-1) in oral tongue squamous cell carcinoma(OTSCC),and to analysis the relationship between PARP-1 expression and the clinicopathologic characteristics and prognosis of patients.MethodsExpression of PARP-1 in 155 paraffin-embedded specimens of OTSCC and 13 paraffin-embedded specimens of adjacent normal tongue mucosa tissues was detected by the immunohistochemical method.The relationship between PARP-1 expression and the clinicopathologic characteristics and prognosis of patients was analyzed.ResultsExpression of PARP-1 was observed in 89.0%(138/155) of 155 OTSCC specimens.Overexpression of PARP-1 was observed in 58.1%(90/155) of the 155 OTSCC Paraffin specimens,while low expression of PARP-1 was 41.9%(65/155).Expression of PARP-1 was not observed in 13 normal tongue specimens.There was a significant difference between the 2 groups ($\chi^2=64.815, P=0.000$).Expression of PARP-1 positively correlated to T stage($\chi^2=10.841, P=0.002$),N stage ($\chi^2=8.962, P=0.007$) and pathological stage ($\chi^2=17.151, P=0.000$).The overall survival ($P=0.037$) and disease free survival ($P=0.026$) were shorter in patients with overexpression of PARP-1 .ConclusionPARP-1 may play an important role in carcinogenesis and cancer progression of OTSCC.PARP-1 may have a prognostic value in OTSCC.

Key words: Oral tongue squamous cell carcinoma PARP-1 Recurrence Prognosis

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