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DNA损伤修复基因以及TS、 β -tubulin III在骨肉瘤中床病理的关系(PDF)

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Title: Expression of DNA damage repair genes, thymidylate synthase and β -tubulin III in human osteosarcoma tissues and its relationship with clinical pathology of osteosarcoma

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摘要: 目的 探讨人骨肉瘤组织中DNA损伤修复基因以及TS、 β -tubulin III多个化疗反应相关标志物的表达谱特点,及其与临床病理的关系。 方法 选取50例诊断明确的骨肉瘤患者组织蜡块,运用组织芯片和免疫组化技术检测OGG1、BRCA1、RRM1、XRCC1、APE1、ERCC1以及TS、 β -tubulin III 8种基因在骨肉瘤组织中的表达情况。 结果 ①OGG1、BRCA1、RRM1、XRCC1、APE1、ERCC1在骨肉瘤组织中呈阳性表达,阳性率分别为96%、94%、94%、84%、84%、74%,强阳性率为64%、76%、54%、72%、48%、2%,而TS仅有6例有弱阳性表达, β -tubulin III无阳性表达。②阳性表达的基因中,仅APE1表达与骨肉瘤的组织病理类型具有相关性($P<0.05$)。③等级相关分析,APE1和RRM1、APE1和OGG1、OGG1和BRCA1表达呈正相关($r=0.342$ 、 0.318 、 0.319 , $P<0.05$),BRCA1和ERCC1表达呈负相关($r=-0.324$, $P<0.05$);APE1和XRCC1、RRM1和XRCC1的表达也呈正相关($r=0.406$ 、 0.677 , $P<0.01$)。 结论 骨肉瘤组织中存在多种DNA损伤修复相关基因的表达,其中部分基因的表达强弱之间具有相关性,APE1的表达强弱与肺癌病理类型有关。

Abstract: Objective To explore the expression profiles of multiple chemotherapy-related markers of DNA damage repair genes and thymidylate synthase (TS) β -

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tubulin III in human osteosarcoma tissues and their relationship with clinical pathology of osteosarcoma. Methods Fifty cases of osteosarcoma tissue paraffin blocks were obtained from the patients with diagnosed osteosarcoma. Tissue microarray and immunohistochemical method were applied to detect gene expression levels of OGG1, BRCA1, RRM1, XRCC1, APE1, ERCC1, TS and B-tubulin III in the osteosarcoma tissues. Results ①OGG1, BRCA1, RRM1, XRCC1, APE1 and ERCC1 were positively expressed in osteosarcoma tissues with the positive rates of 96%, 94%, 94%, 84%, 84% and 74%, respectively, and their strongly positive rates were 64%, 76%, 54%, 72%, 48% and 2%, respectively. There were only 6 cases showed weakly positive expression of TS, and B-tubulin III was negative in osteosarcoma tissues. ②In the positively expressed genes, only APE1 expression was correlated with osteosarcoma pathological types ($P<0.05$). ③The results of rank correlation analysis showed that APE1 expression was positively correlated with the expression of RRM1, OGG1 and XRCC1 ($P<0.05$, $P<0.01$), OGG1 expression was positively correlated with BRCA1 expression ($P<0.05$), RRM1 expression was positively correlated with and XRCC1 expression ($P<0.01$), but the expression of BRCA1 was negatively correlated with ERCC1 expression ($P<0.05$).

Conclusion Several types of DNA damage repair genes are expressed in osteosarcoma tissues, and some of their expression levels have Spearman rank correlations. The characteristics of the chemotherapy-related gene expression in osteosarcoma may have significance for individual chemotherapy in patients with osteosarcoma.

参考文献/REFERENCES

蒋平, 关伟, 戴楠, 等. DNA损伤修复基因以及TS、B-tubulin III在骨肉瘤中的表达及其与临床病理的关系[J]. 第三军医大学学报, 2013, 35(1):61-65.

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