

البحث الأول

تأثير تعبير ال سي دي سي بي ١ في سرطان المثانة: دراسة مناعية هستوكيميائية

Value of CUB domain containing protein 1 expression in urothelial carcinoma: an immunohistochemical study

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بحث جماعي

Abstract

Aim CUB domain containing protein 1 (CDCP1) overexpression is associated with cancer progression and poor prognosis for some solid cancer types including pancreatic, kidney, breast, colon, lung, prostate, and ovarian carcinoma. To our knowledge, this marker was not evaluated in cases of urothelial carcinoma. In urothelial carcinoma, it is sometimes difficult to differentiate between low and high grade papillary urothelial carcinoma, especially in small biopsies. This has inspired us to test for the accuracy of CDCP1 evaluation in discriminating between both grades as well as the possibility of invasion among the cases studied.

Methods This study has included 60 paraffin-embedded urinary bladder samples diagnosed as: 40 noninvasive papillary urothelial carcinomas (pTa), 20 invasive urothelial carcinomas, including five infiltrating the lamina propria (pT1), and 15 infiltrating the muscle proper (pT2). A histochemical score was used to evaluate CDCP1 expression by the tumor cells.

Results In this study, CDCP1 expression level was significantly higher in high grade noninvasive papillary urothelial carcinoma than in low grade cases ($P<0.05$). Among the low-grade cases, CDCP1 expression level was significantly higher in invasive cases than in noninvasive cases ($P<0.05$). Among the high-grade cases, CDCP1 expression level was not significantly higher in invasive cases than in noninvasive cases ($P>0.05$).

Conclusion CDCP1 expression can be of value in differentiating low from high grade papillary urothelial carcinoma. It can also help in discriminating between invasive and noninvasive cancers in the low-grade urothelial carcinoma group. These results should be further confirmed by extending the study on a large scale