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Expression of syndecan-1 and E-cadherin is inversely correlated with poor patient's prognosis and recurrent status of extrahepatic bile duct carcinoma

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ABSTRACT

Extrahepatic bile duct carcinoma is one of the most extremely aggressive cancers with poor prognosis after curative resection. Syndecan-1 and E-cadherin are transmembrane glycoproteins, and have important roles in cell-cell adhesion and tumor progression. In this study, we examined 84 surgically resected cases of extrahepatic bile duct adenocarcinoma to clarify clinicopathological significance of syndecan-1/E-cadherin expression. Reduced expressions of syndecan-1 and E-cadherin were found in 69.0% (58/84) and 46.4% (39/84) of the bile duct carcinomas. Reduced syndecan-1 expression was correlated with lymphatic/venous/nervous invasion ($P < 0.0001$), and was associated with short overall survival ($P = 0.0002$). Reduced E-cadherin expression was correlated with lymphatic and nervous invasion ($P = 0.008$, $P < 0.0001$, respectively), and was associated with short overall survival ($P = 0.0038$). The results indicated that reduced syndecan-1/E-cadherin expression may be good indicators of recurrence and prognosis in extrahepatic bile duct carcinoma.

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