Prognostic significance of CUB domain containing protein expression in endometrioid adenocarcinoma

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The objectives of the present study was to examine the prognostic significance of CUB domain containing protein expression in endometrial adenocarcinoma.

METHODS: Expression level of CDCA1 was immunohistochemically examined in 110 cases (median age of 54.7 years) of endometrial adenocarcinoma. Tumor stage was stage I in 71 cases (64.5%), II in 5 (4.5%), III in 28 (25.5%), and IV in 6 (5.5%). Staining intensity of tumor cells was divided into two categories: tumor cells with no to weak and moderate to strong membrane staining. The intensity of CDCA1 expression in each case was defined by the staining of major population of cells as follows: cases with tumor cells showing no to weak and moderate to high membrane staining were categorized as CDCA1-low and CDCA1-high, respectively. mRNA expression level of qRT-PCR was also checked in some samples that categorized as CDCA1-low and -high as comparable method to categorized cases into CDCA1-low and -high.

RESULTS: IHC staining showed non-neoplastic tissues showed high expression of CDCA1 and correlated with the proliferative potential of the endometrium. Dysregulation of CDCA1 expression was seen in endometrial adenocarcinoma. Eighty-seven of 110 cases were categorized as CDCA1-high, and the remaining as CDCA1-low. Significant positive correlation was observed between low CDCA1 expression and stage (p<0.0001), relapse rate (p<0.0001), and poor prognosis (p=0.0099). Multivariate analysis revealed that low CDCA1 and advanced stage were independent poor prognostic factors for both OS and DFS. Overall results suggested that high expression of CDCA1 contribute to better prognosis of the patients.

Role of CDCA1 which is a prognostic marker in cancers such as lung and breast was studied in endometrial adenocarcinoma. High expression of CDCA1 contribute to favorable prognosis and downregulation of CDCA1 expression could contribute to malignant progression of the disease.
が異なることがわかった。これまでCCCPの子宮内流産における臨床的症例は報告されておらず、本研究は
学位論文に従する。