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Theme: Oral Medicine / Oral Pathology / Oral Cancer

Expression of Claudins in Odontogenic Tumors

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OBJECTIVE: To analyze the distribution and staining patterns of claudin-1, 5 and 7 in odontogenic tumor.

MATERIAL-METHODS: 40 cases of ameloblastoma, adenomatoid odontogenic tumor (AOT) and ameloblastic fibroma (AF) from biopsy or surgical specimen at the Department of Oral Pathology, Faculty of Dentistry, Chulalongkorn University since 2006-2012 were enrolled for the study. Standard indirect immunohistochemistry using antibodies specific to claudin-1,5 and 7 were performed. Staining were scored by evaluating both the percentage of stained cells within representative regions of each specimen and the intensity of the stain. For claudin expression evaluation, only plasma membrane were regarded as claudin positive staining. Expression pattern of claudin and the association with clinical and histopathological data were reported.

RESULTS: Claudin-1, 5 and 7 expression were shown in different areas of ameloblastoma, AOT and AF. The area and distribution of staining pattern were different among different types of tumors.

CONCLUSIONS: There was an expression of claudin-1,5 and 7 in epithelial odontogenic tumor. The exact roles of these molecules in odontogenic tumor should be studied more.

Keywords: Claudin, ameloblastoma, adenomatoid odontogenic tumor, ameloblastic fibroma, odontogenic tumor