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ABSTRACT

Background: Nasopharyngeal carcinoma (NPC) is a malignancy derived from lymphoepithelial tissue and nasopharyngeal epithelial cells. Response therapy of NPC can be evaluated from hisopathological type, but in some patients with same histopathological type illustrated a different response therapy. IL-10 expression expected to predict the better response therapy of NPC. IL-10 expression by immunohistochemical examination associated with the differentiation of tumors. Purpose: To find out the association between IL-10 expression and histopathological type in NPC patients. Methods: the study was analitic observational with cross sectional approach. Samples were collected by consecutive sampling. Formalin-fixed paraffin-embedded biopsy specimens were obtained. The expression of IL-10 was studied with immunohistochemistry using rabbit polyclonal antibody Anti IL-10 ab34843 (Abcam®, Cambridge - UK). Assessment of the staining was performed by pathologist independent used Allred scale. The Fisher's exact test was used to determine the correlation expression of IL-10 and histopathological type of nasopharyngeal carcinoma. Statistical significance was defined as p < 0.05. Result: The result of IL-10 expression in NPC patients with histopathological type I WHO NPC obtained 1 sample was strong positive expression and 2 sample was weak positive expression. In patients with histopathological type II WHO NPC obtained 2 samples was strong positive expression and 12 samples was weak positive expression. In patients with histopathological type III WHO NPC obtained 9 samples was strong expression and 7 samples was weak positive expression. From all sample there was 36.36 % was strong positive expression and 63.64% was weak positive expression. There were increase of amount cells that give strong expression on WHO type III. Statistical analysis using Fisher's exact test was obtained p = 0.040 with a contingency coefficient 0.384. Conclusion: There was moderate association between IL-10 expression and histopathological type in NPC patients.

Keyword : Nasopharyngeal carcinoma, expression of CD44 Stem cells cancer, histopathological type.