ABSTRACT

BACKGROUND:

The local tissue immune status may play a role in cancer cervix. The aim of our study is to examine the expression of HLA 1 and CD 8 in various types of carcinoma cervix and to correlate them according to their grades of malignancy.

METHODS:

We chose the hysterectomy and small cervical biopsy tissues of cervical cancer and then detected the expression of HLA 1 and CD 8 using SP immunohistochemistry. The associations of the HLA 1 and CD 8 expression with the clinicopathologic profiles of the patients were analyzed.

RESULTS:

The positive staining of HLA class 1 antigen in well differentiated carcinoma is 7 out of 24 SCC cases and the negative staining of HLA class 1 in poorly differentiated form of SCC is 5 out of 24 cases. This also correlates with the expression of CD 8.

CONCLUSION:

The expression of HLA 1 and also CD 8 are downregulated in poorly differentiated carcinomas and it is more efficiently expressed in well differentiated forms which indicates that there is a good prognosis in well differentiated carcinomas because of HLA 1expression and cytotoxic destruction of tumor cells by CD 8 + lymphocytes.

KEY WORDS:

HLA Class 1 antigen; CD8; Cervical cancer; Immune surveillance; Immune escape.