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Claudin-7 Expression In Triple Negative Breast Cancer Based On Histopathological Type And Grade

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Abstract : Triple negative breast cancer (TNBC) is an aggressive type of breast carcinoma that often invade to stroma or metastasis, that may be affected by claudin-7 protein in tight junction. Low expression of Claudin-7 considered to have worse outcome and prognose of TNBC patient. To know the immunohistochemical expressions of claudin-7 based on various clinicopathological parameters among TNBC patients, we collect formalin-fixed paraffin-embedded tissue blocks of 50 TNBC patients were immunohistochemically studied for claudin-7 expressions. Allclinicopathological characteristics were obtained through medical records and pathology archives. In our study found that 43 case (86%) of the TNBC patient showed claudin-7 high expression and 7 case (14%) showed low expression. The mean age for TNBC patients was 47,42 (±8,42) years old and the mean of claudin-low expression was 43 ± 8,28 years old with all of them was pra-menopausal. Claudin-7low expressions showed in the only one case with lung metastasis, in moderate clinical stage, tumor size, grade andvarious histopathology type in TNBC. Mostof claudin-7 low expression showed with no lymph node involment. Many of Claudin-7 low expression showed on grade 2 TNBC patient. Hence, application and work validation by using larger samples and equally distribution needed for a appropriate prognose determination andmetastatic tendency of TNBC patients with claudin-7 low expression.
Keywords : TNBC, Clinicopathological, Immunohistochemistry, Claudin-7.

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