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The role of angiogenesis in triple negative breast cancer of mice model

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Triple Negative Breast Cancer (TNBC) is a sub-type of breast cancer with a poor prognosis, accounting for approximately 12-24% of breast cancer. Angiogenesis which has a central role in growth and metastasis of most cancers are commonly induced by invasive human breast carcinoma. The aim of this study is to determine the expression level of some angiogenic factors in different stage of TNBC mouse model in compare to healthy controls. To achieve this, 15 mice were injected by 4T1 cell line as mouse TNBC and 10 mice were selected as healthy control. The sample of triple negative breast tumors in different size and different stages from early, intermediate, advanced and end stages were taken and immunochemistry analysis were performed. The results were shown that CD31, VEGF and bFGF of angiogenic factors were significantly expressed in early stage when the volume of tumors are 60 mm3 and parallel to tumor growth in higher stages they were more expressed in comparison to control group. In conclusion, angiogenic factors are induced by mast cells at the very early stages of TN tumors and anti-angiogenesis therapy is necessary to be considered at first line of treatment.

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