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Sarcoidosis imitating breast cancer metastases

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A 52-year-old woman was presented to our hospital. She had initially noted a lump in her left breast during self-examination. Mammography scan demonstrated a 19x18 mm mass in the inner quadrants of the left breast. Ultrasound revealed enlarged lymph nodes in the left axilla up to 10 mm in diameter, 18x10 mm left supraclavicular lymph node, multiple enlarged right supraclavicular lymph nodes with the biggest one being 16x7 mm in size. Fine-needle aspiration cytology of the breast lump revealed cancer. Due to these, suspected diagnosis at that time was breast cancer, T₁N_{3c}M₀. Histological examination of the obtained left supraclavicular lymph node revealed no cancer but the multiply epithelioid-cell granulomas. Based on these results lumpectomy with urgent histology of resection margins was chosen as the next step of management. Left axillary dissection was performed through a separate incision. Histological study revealed infiltrative moderately differentiated breast carcinoma with micro-calcifications. Sarcoidosis granulomas with no tumor growth were found in 6 of 15 lymph nodes. Molecular type of cancer was identified by immunohistochemistry: non-luminal Her 2/neu-positive. Now therefore, post-operative diagnosis of this patient was left breast cancer, T₁N₀M₀, sarcoidosis of left axillary and right supraclavicular lymph nodes. She has undergone radiation therapy and has been directed to physician for sarcoidosis management and follow-up.

This case report shows the necessity of the lesion's nature histological verification to be a significant point in the diagnosis of cancer. Revealed sarcoidosis refutes the metastatic nature of the lesion and automatically changes the post-operative management and prognosis.

Biography

Akhmedov Mobil was graduated from I.M. Setchenov First Moscow Medical University in 2015. He has completed Surgery Internship programs in Munich, Germany and Istanbul, Turkey and participated in many conferences for young scientists. Currently he is a Resident at the Department of Surgery of the I.M. Setchenov First Moscow Medical University.

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