A Rarely Seen Breast Tumor: Looking Over the Literature Related to Intracystic Papillary Carcinoma

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SUMMARY
Intracystic papillary carcinoma of the breast is a rarely seen tumor. It is often classified as a variant of in situ ductal carcinoma. Intracystic papillary carcinoma is slow growing and usually surrounded and limited by fibrosis capsule. Presently described is case of a 51-year-old postmenopausal patient. She felt a tumor in her left breast, and after examination, it was diagnosed as intracystic papillary carcinoma. Following adjuvant chemotherapy breast excision, and axillar dissection, patient was given curative external radiotherapy and hormonal treatment. As result of 40-month follow-up, the patient was evaluated as having local recurrence and no distant metastases. Follow-up and treatment protocols should be observed on case-by-case basis.

Keywords: Breast; cystic; papillary.

Introduction
Tumors of intramedullary papillary tumors are very rare tumors. They are 3% of all breast cancers.[1] Patients usually come from the mammary mass, from the nipple discharge or radiological abnormality.

Ductal carcinoma is treated as a variation of in situ tumun. However, intracystic papillary carcinomas differ clinically and radiologically from ductal carcinoma in situ.

Intraclavicular papillary carcinoma is usually surrounded by a fibrous capsule and is limited within the capsule. Histologically, dilate ductus arises and grows there. Malignant papillary lesions are associated with the largest change in breast pathology.

The first intracavitary papillary carcinoma case was shown in 1962 by Kraus and Neumbecker.[2] Subsequently, Carter and his friends found that the papillary variant’s intracystic papular carcinoma and ductal carcinoma inset were classified as intraductal malignant lesions.[3]

Intracystic papillary carcinoma is diagnosed immunohistochemically in the papillary cell layer by the absence of myoepithelial cell layer. Characteristically, it is diagnosed with anti-p63, smooth muscle actin and CD10 antibody.[4,5] Intracystic papillary carcinoma of the chest is a very rare tumor with very few revivities and few cases are encountered. Our aim in this study is to differentiate between our approach in terms of illness treatment.

Case Report
Postmenopausal 51 year-old female patient had a massive cystic lesion on the right side of the left mammal at 3 o’clock on the left mammary gland with a dense con-
Tumor diameter 2.7 cm tumor is nuclear grade 2. Surgical limits are released. Lateral surgery revealed low nuclear grade ductal carcinoma in situ focus at 2 mm distance. In the area of intracystic papillary carcinoma, ER (-), PR% (-), CERB-2 (-), cytokeratin14 (+), cytokeratin AE1 / AE3 (+), P53 5% and KI-67 proliferation index were reported as 3%.

In addition, smooth muscle actin and calponin applied in this focus were found in the tumor and in the periphery (-) (Figures 2–4). The papillary ductal carcinoma in situ was ER 20% (3+), PR 15% (2+) and smooth muscle actin and calponin were detected in peripheral myoepithelial cells (Figure 5).

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In addition, a block of smooth muscle actin, calponin, P63, cytokeratin 5/6 was administered; No diagnostic staining pattern was observed with cytokeratin 5/6 and p63 (Figures 6, 7). The patient was diagnosed as intracystic papillary carcinoma (encapsulated papillary carcinoma).

Then, reactive lymph node hyperplasia was detected in 21 lymph nodes after the axillary dissection of the patient. As a result of council, it was deemed appropriate to take KT + RT + HT in the next treatment of the patient. The patient was admitted to our clinic to receive 4 cycles of Adriamycin + Cyclophosphamide.

The patient received curative doses of radiotherapy and hormonal therapy after chemotherapy. No local recurrence or metastasis were detected at the 40-month follow-up.

Immunohistochemical examination Absence of myoepithelial cells in papillary and periphery of smooth muscle actin stain. Neighboring normal ducts and lobules are surrounded by smooth muscle actin-positive myoepithelial cells (Figure 3: smooth muscle actin x40, Figure 4: smooth muscle actin x100).

Discussion

Breast cystic formations are very common. Slowly growing cystic lesions seen in postmenopausal patients should be followed up. Carcinomas seen in the fibrous tissue surrounding the cyst are rare.

The majority of intracystic carcinomas are intracystic papillary carcinomas and the remaining pathologies are invasive ductal carcinoma with cystic degeneration, medullary carcinoma, mucinous carcinoma, adenoid cystic carcinoma and squamous carcinoma.[6] Intracystic carcinomas occur in 0.5% to 1% of female breast carcinomas.

They consist of a single cyst or a few cysts in the retroaerolar region of 70–90% and are placed in a single quadrant. 5–25% may have nipple discharge and 18% of cases are asymptomatic. Intracystic papillary carcinoma is seen as a round or oval mass on mammogram. Indefinite limited and spacially contoured appearance is rare. Mammograms can be seen in areas of microcalcification as well as in the immune system. Fine needle aspiration biopsy or true-cut biopsy is the most difficult to identify.
Solorzano and his colleagues therefore said that an excisional biopsy was needed. The advanced carcinoma focus on a cystic wall may not manifest itself with this fine needle biopsy or cyst aspiration. An excisional biopsy is required to assess the entirety of the material.[7,8] Because intracavitary papillary carcinomas are rare, the treatment consensus is not clear. Carter et al.[3] noted that in patients treated with local excision in 1983, and with 7 intracystic papillary carcinomas without recurrence for 7 years, mastectomy patients were treated with additional treatment. Nowadays, segmental mastectomy is done with negative surgical margin in the treatment of intracystic papillary carcinoma in past history.[1,7]

In the recent studies, it was observed that there was no difference between the patients who underwent the segmental mastectomy and those who underwent the mastectomy and the recurrence and cancer-related deaths. Very rarely, axillary microinvasion, lymph node metastases, is encountered.

Wasserberg and colleagues found a 7% incidence of ductal carcinoma in situ intrapapillary carcinoma in the patient, with distant metastases in 2% of these patients with lymph node involvement.[8] Axillary lymph node dissection should be discussed after the sentinel lymph node sampling.[9]

Some studies suggest adjuvant radiotherapy and endocrine therapy. Evaluation of case-based treatment options is beneficial.[10] In our follow-up, cystectomy was performed after the axillary dissection and adjuvant treatments were given. No local recurrence or distant metastases were found during the 40-month follow-up of the patient. The patient was evaluated as complete remission.

Result

Cystic lesions seen in the mammals are benign formations. Intracystic papillary carcinoma of the memine is a very rare tumor and it is better than intraductal carcinoma. It is important that the cystic lesions seen in postmenopausal women are followed. Particular attention should be paid to the solid construction in the cyst. Cells that dysplase during localization or multiple foci on a wall of the cyst are rare. There is a risk of these lesions turning into intracystic papillary carcinoma over time. These structures in the cyst can develop papillary non invasive carcinoma. However, intracystic papillary carcinomas are slowly growing well-limited masses. Follow-up and case-based treatment protocols should be followed.

Disclosure Statement

The authors declare no conflicts of interest.

References