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Case Report

Epidermal Inclusion Cyst of the Breast

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ABSTRACT

Epidermal inclusion cysts are uncommon in the breast, but the consequences can be severe when these cysts occur in the breast parenchyma. Here we report one such case.

The patient was 45 yrs old women with 3*2 cms mobile lump in lower outer quadrant of left breast and another 3*1cms mobile lump in central quadrant of right breast. mammography showed well defined oval shaped mass in both the breast suggestive of fibroadenoma of bilateral breast. FNAC was done and showed features of epidermal inclusion cyst in left breast and fibroadenoma of right breast. The excision biopsy confirmed the same diagnosis

Keywords: Epidermal inclusion cyst, fibroadenoma, excision biopsy.

INTRODUCTION

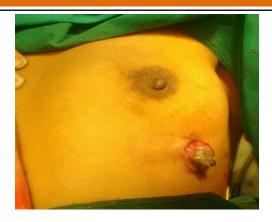
An epidermal inclusion cyst is lined by a cornified epithelium, has a distinct granular layer, and contains lamellated keratin without calcification. Such cysts most commonly occur on the scalp and in the skin of the neck and back, whereas they are only rarely found in other areas, including the skin of the breast.

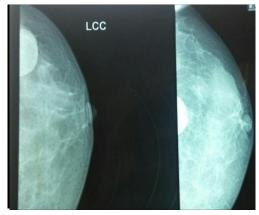
Diagnosis is straight forward for epidermal inclusion cysts that occur in the breast sub cutis as a small nodule, but enlarged cysts presenting in the breast parenchyma require them to be differentiated from malignant or benign tumors of the breast. Here we presenting a case of epidermal inclusion cyst of the breast

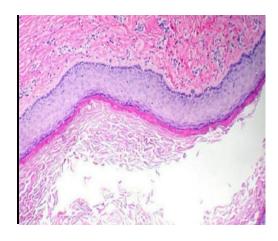
CASE REPORT

The patient was 40 years female came to the outpatient department with complaining of lump in bilateral breast since one year there was no history of increase in size of the lumps and secondary changes. On clinical examination there was 3*2 cms mobile lump in lower outer quadrant of left breast and another 3*1cms mobile lump in central quadrant of right breast detected. Bilateral breast mammography showed well defined oval shaped mass in both the breast suggestive of fibroadenoma, and FNAC was done showed the features suggestive of fibroadenoma of right breast and epidermal inclusion cyst of left breast. The excision biopsy was done to confirm the diagnosis showed, the similar findings.

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DISSCUSSION

Epidermal cysts in the breast are believed to arise through several different mechanisms. First, they can develop from obstructed hair follicles. Second, they may result from trauma, suchas that due to reduction mammoplasty or needle biopsy of the breast, which may cause torn fragments of the epidermis to become implanted deep within the breast tissue⁽¹⁻³⁾. Third, they can be createdby squamous metaplasia of normal columnar cells within an ectatic duct in an area of fibrocystic disease or in a fibroadenoma⁴⁾. In our case the pathogenesis of the epidermal inclusion cystsmay have been obstruction of hair follicles, because

there was no past history of breast biopsyor trauma.

Generally, epidermal inclusion cysts that develop in theskin of the head and dorsal region are macroscopically noted as protrusions from the skin, which may be due to the firm composition of subcutaneous tissue such as bone and muscle in the head and dorsal region. On the other hand, histologically flexible fat and mammary gland tissues are present under the breast skin, and this mayexplain why epidermal inclusion cysts that developin the breast skin grow toward the deep subcutaneous tissue and are difficult to distinguish clinically from a mammary gland tumor (1-3). On mammography, an epidermal inclusion cyst appears as a well-circumscribed, homogeneous density and thus is distinguishable from breast cancer⁵⁾. Even when the mammographic appearance of a palpable mass is consistent with abenign lesion, the finding of a solid lesion on sonography may require tissue diagnosis to exclude a carcinoma with well-defined borders, asin our Case On sonography, breast epidermal inclusion cysts have a solid, well-circumscribed and complex appearance; the specific sonographic features of these cysts were described by Pavel et al.as an onion-ring appearance with alternating concentric hyperechoic and hypoechoic rings, which correspond to the pathologic features of lamellated keratin⁶⁾.

Although epidermal inclusion cysts are benign, occasionally they may play a role in the origin of squamous carcinoma of the breast. Squamous cell carcinoma develops only rarely (0.045%) inthe wall of common epidermal inclusion cysts⁷⁾.

CONCLUSION

In summary, an epidermal inclusion cyst of thebreast is potentially serious, although such cystsare rare, and differentiation from a malignant or benign breast tumor is required. Excision is probablythe most appropriate treatment, and this removes the possible risk of malignant transformation.

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