

A Case of Malignant Fibrous Histiocytoma-like Sarcomatoid Metaplastic Carcinoma of the Breast

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A metaplastic carcinoma of the breast (MPC) is a very rare malignant tumor accounting for fewer than 1% of all mammary tumors. MPCs are difficult to diagnose accurately and classify because of their rarity and varied histological patterns. A MPC is a histologically diverse type of malignancy in which an adenocarcinoma is found to co-exist with an admixture of spindle cells, squamous, chondroid, or bone-forming neoplastic cells. Cystic changes can be encountered in MPC, particularly in carcinoma with squamous metaplasia, but are rare in a sarcomatoid metaplastic carcinoma. We recently experienced an unusual case of a sarcomatoid metaplastic carcinoma mimicking a malignant fibrous histiocytoma of the soft tissue in a 34-year-old female, who had a breast tumor with an extensive cystic change, which was growing rapidly. Here, we report this unusual case of MPC with a review of the relevant literature. (J Korean Surg Soc 2003;64:72-76)

Key Words: Breast cancer, Sarcomatoid, Metaplastic carcinoma

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(metaplastic carcinoma)

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 © 133-792,
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 : 2002 9 4 , : 2002 9 10

1%
 .(1-3,5)
 가
 가
 ,
 .(3) Kurian Al-Nafussi(10) / - (fibromatosis/nodular fasciitis-like), - (malignant fibrous histiocytoma-like), - (osteosarcoma-like), - (fibrosarcoma-like)
 .(2,12)

: , 34
 :
 : 5 2 cm 가 가 2 60 cc 가 가 가
 가 : 가
 7
 :
 10×10 cm 가
 가
 : 12.0 g/dl, 324,000/mm³
 36.7%, 8,700/mm³,
 : 3 가 가
 5×5 cm 가 (Fig. 1).

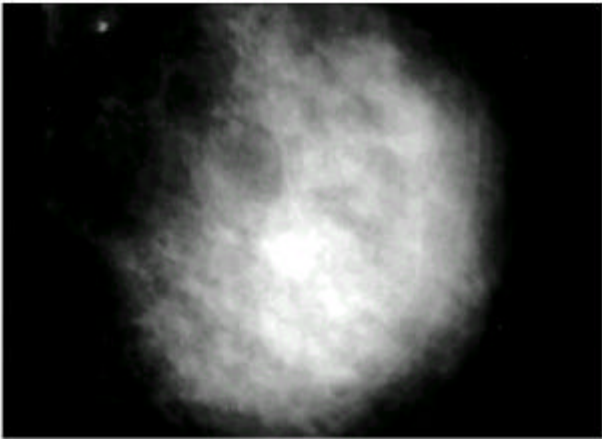


Fig. 1. Mediolateral oblique view of mammogram shows an well-defined mass with architectural distortion, adjacent to chest wall.



Fig. 3. Breast MRI which was taken 3weeks after mammogram and ultrasonogram shows huge hemorrhagic cystic lesion with multiple mural nodules in the left breast (arrow).

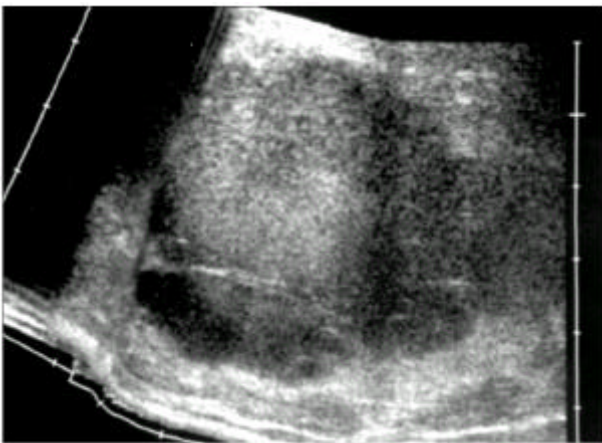


Fig. 2. Ultrasonogram shows a large cystic mass with irregular margin and heterogenous echogenicity, measuring 5.6 cm in transverse diameter.

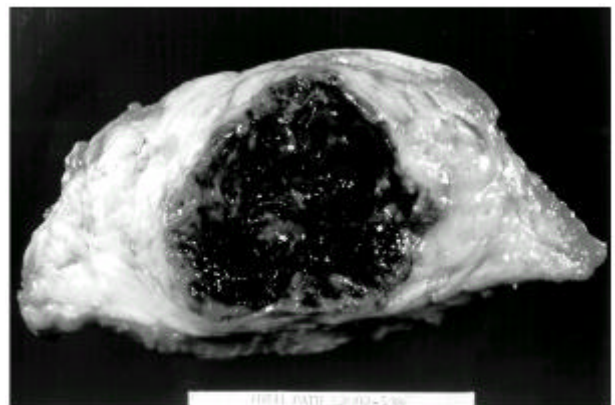


Fig. 4. The mass is huge cystic, measuring 10×8×6 cm in size. The lesion contains brownish old blood clot with necrotic materials. The cystic lesion shows relatively ill-demarcation without capsule.

가 가 5.5 cm (echogenic) (Fig. 2).

MRI 9×8 cm 가 (Fig. 3).

9×10 cm 가 (Fig. 4).

10×8×6 cm 가 (Fig. 5).

(mitotic figures)

가 :

가 :

(Fig. 5A).

(Fig. 5B).

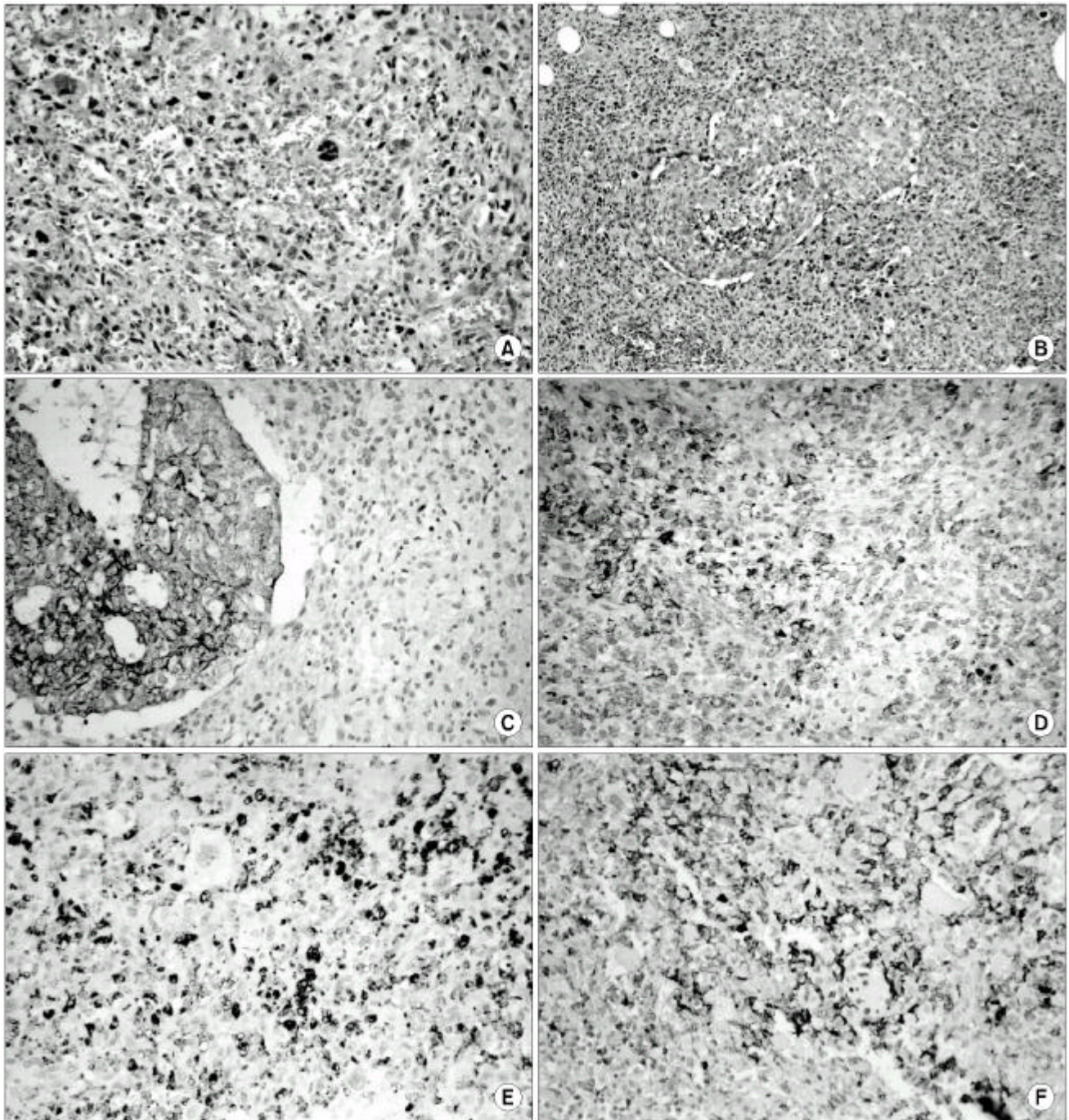


Fig. 5. (A) The tumor consists of sheet or bundles of plump spindle cells with numerous atypical mitotic figures, bizarre tumor giant cells and inflammatory cells. The tumor cells have abundant eosinophilic cytoplasm (H&E, $\times 200$). (B) Small focus of ductal carcinoma component is present (H&E, $\times 100$). (C) Immunohistochemical stain for cytokeratin shows positivity in the ductal carcinoma component, but negative reaction in the sarcomatous component ($\times 200$). (D) Immunohistochemical stain for vimentin shows positive reaction in sarcomatous area ($\times 200$). Immunohistochemical stain for CD68 (E) and HLA-DR (F) show positive reaction in sarcomatous component ($\times 200$).

cytokeratin

lysozyme, HLA DR (Fig. 5F)

(Fig. 5C) vimentin (Fig. 5D), CD68 (Fig. 5E),

25

, cyclinD1, bcl2 p53
90%

(architectural distorsion) 가

5-FU, adriamycin, cyclophosphamide
6
5,600 rad
8

(7.11)

5-FU, Adriamycin,

Cyclophosphamide (FAC)

1%

(1,3-6)

(1-3,5) (3)

가

가

(3-5) (4)

0.8%

가 17.4%

가 5.9%

가

가

가

(13)
가

p53

Costa

(1,3-5)

25

1 가

(3)

Rayson (5)

(2,14)

, 60

가

(2) Wargotz (15-17)

가

(Matrix-producing carcinoma),

Chao (4)

(Spindle cell carcinoma),

(Squamous

cell carcinoma), (Carcinosarcoma) 가

가

, 가

, 가

Oberman (6) Pitts (8)

가

가

가

(variants)

(3,4)

Kurian Al-Nafussi(10)

가

가

,

34

Kurian Al-Nafussi

,
가

가

(2-12),

가

가

가

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