



## Myoepithelial Carcinoma of Soft Tissue: A Case Report and Review of the Literature

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Myoepithelial carcinoma of soft tissue is extremely rare although its counterpart of the salivary gland is relatively common and well-known with similar morphology. The histogenesis of myoepithelial carcinoma of soft tissue is still unknown. In fact, the tumor may present with myoepithelial differentiation but not originate from myoepithelial cells.<sup>1</sup> The tumor cells are heterogeneous in terms of cell type and architecture. The tumor cells may be epithelioid, spindle, clear, or plasmacytoid. The growth pattern varies and can be solid sheets, reticular, or trabecular architecture without ductal differentiation.<sup>2</sup> Myoepithelial carcinoma usually shows cytologic atypia, mitotic activity, infiltrative growth, or tumor necrosis.<sup>2</sup> Only few studies have been reported because of the rarity of myoepithelial carcinoma of soft tissue.<sup>1-4</sup> Consequently the clinical and pathologic characterization has been limited. Also, the limitation of definite diagnostic criteria and prognostic parameters makes the diagnosis and management of myoepithelial carcinoma of soft tissue difficult. Here we report the first case of myoepithelial carcinoma of soft tissue in Korea.

### CASE REPORT

A 69-year-old male presented with a palpable mass in the right shoulder area. The mass had been noted 6 months prior and the size of the mass had recently increased. On physical examination, the round and firm mass was fixed on the upper as-

pect of the right scapula without tenderness. The sonography revealed a heterogeneous echogenic solid mass. A local excision was performed. The mass was located in the subcutaneous soft tissue just above the trapezius muscle and measured 4.0 × 3.5 × 2.0 cm.

The solid mass was lobulated and the cut surface of the mass was gray tan with multiple necrotic foci (Fig. 1A). The tumor was confined to the subcutaneous soft tissue without dermal invasion. Although the tumor showed a well-circumscribed lobulating border, microscopic tumor infiltration into the adjacent soft tissue was observed (Fig. 1B). The tumor presented with various histologic growth patterns including solid sheet, trabecular, reticular patterns, and short fascicle with myxoid and hyalinized stroma. Although tumor cells had a heterogeneous cytomorphology consisting of epithelioid cells, spindle cells, clear cells, and plasmacytoid cells, the tumor cells generally showed vesicular or coarse chromatin, distinct nucleoli, and thick irregular nuclear membrane (Fig. 2). Numerous mitoses were noted (up to 42 per 10 high-power fields). In addition, multifocal tumor necrosis was found. Lymphovascular invasion was also found.

Almost all tumor cells were intensely positive for low-molecular-weight cytokeratin (CKAM5-2), vimentin, and CD10. While the tumor cells were focally positive for cytokeratin and smooth muscle actin (SMA), they were diffusely weak positive for glial fibrillary acidic protein (GFAP). However, the tumor cells were totally negative for desmin, epithelial membrane antigen (EMA), CD13, monoclonal carcinoembryonic antigen, p63, CD34, human melanoma black 45, gross cystic disease fluid protein 15, and S-100 protein (Fig. 3). Fluorescence *in situ* hybridization (FISH) analysis for *EWSR1* gene rearrangement was performed at an outside institution, but the present case did not exhibit *EWSR1* gene rearrangement. On the basis of histologic find-

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**Abridged Index Medicus**, 1997-12 **Radiology**, 1962 **Invasive Myoepithelial Carcinoma Ex Pleomorphic Adenoma of the Major Salivary Gland: Two Case Reports** Aarhus Aarhus Press, 2016-11-02 Myoepithelial carcinoma (MEC) is a rare salivary gland tumor. Its long-term prognosis remains unknown because of the paucity of reported cases with long-term follow-up. Although some case series exist, the clinical features of MEC vary considerably depending on the site of origin. Therefore, accumulation of these rare cases is important. Proceeds from the sale of this book go to support an elderly disabled person. [Malignant Myoepithelioma of Vulva; How Rare is It? : Case Report](#), 2017 Malignant Myoepithelioma of Vulva: How Rare is it? Case Report. Introduction: Malignant myoepithelial cells are rare cancer cells that commonly occur within the salivary glands. It rarely occurs in the vulva. 1. These tumors are composed of epithelioid plasmatoctoid spindle-shaped and clear cells with a characteristic of microscope and immunohistochemical appearance. 2. The PubMed database was chosen for research as it is the most widely used resource for medical literature. The following terms were used for myoepithelioma of the vulva, and nine literatures were found. Case: A 64-year-old woman came to our center for a second opinion after a biopsy result. She was complaining of a non-painful swelling of the left labia majora for six months. After that, she had excisional biopsy. The pathology results revealed Epithelioid Sarcoma. Therefore, the case was discussed in the Tumor Board Meeting, and the decision was made for radical vulvectomy with bilateral inguinofemoral lymphadenectomy. We

performed the needed surgery on the patient The pathologist requested the original pathology specimens The re review of the original pathology slides showed the myoepithelioma of the vulva The case was again discussed in the Tumor Board Meeting and recommended for an adjuvant radiotherapy Discussion tMalignant myoepithelioma of the vulva are rare tumors and need an expert pathologist The Pathologist requested to review the first biopsy result that reported Epithelioid sarcoma and our surgery pathology results revealed myoepithelioma Therefore all available glass slides and pathology reports were re reviewed Immunohistochemically the tumor cells were positive for these staining EMA Actin SMA Pan ck 5 6 8 18 CD 34 and Calponin whereas it was negative for GFAP and TLE 1 There were four mitosis figures per ten high power field HPF and the Ki 69 index was 25% Therefore based on that the final diagnosis was malignant myoepithelioma The myoepithelioma can present as low or high grade malignancy and the grade is the one that determines the overall prognosis Optimal treatment should comprise radical excision of the primary site bilateral inguinal lymph node dissection and adjuvant radiotherapy 3 Conclusion tAn Expert pathologist is needed in this field due to the rarity of myoepithelioma It would be more helpful if there was a bank for soft tissue sarcoma registration So sharing the experiences and reviewing the cases may help for better management and guidelines References 1 Meenakshi M McCluggage W G Myoepithelial neoplasms involving the vulva and vagina report of 4 cases Human Pathology 2009 1747 17532 Kyriazi M A Carvounis E E Kitsou M Arkadopoulos N Nicolaidou E Fotiou S Smyrniotis V Myoepithelial carcinoma of the vulva mimicking Bartholin gland abscess in a pregnant woman case report and review of literature International Journal of Gynecological Pathology 2010 29 501 504 3 Fukunaga M Myoepithelioma of the vulva APMIS 2003 111 416 20

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