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Nodular fasciitis mimicking a soft tissue sarcoma – A case report

Vatsal Khanna*, Manikandan Rajan, Trishya Reddy, Naveen Alexander, Parmasivam Surendran

Sri Ramachandra Medical College, Porur, Chennai – 600116, Tamil Nadu, India

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ABSTRACT

INTRODUCTION: Nodular Fasciitis, also known as infiltrative or pseudosarcomatous fasciitis, is a benign soft tissue tumour of fibroblastic/myofibroblastic differentiation, that was first described in 1955 by Konwaler et al.

PRESENTATION OF CASE: This is a case report of a 27-year old male with complaints of a swelling in the right axilla for 2 and ½ years measuring 12 cm × 10 cm. Chest X-Ray was normal. Magnetic Resonance Imaging of the right arm and chest showed an irregular mass in the axilla in the muscular-subcutaneous plane measuring 10.8 cm × 8.8 cm × 12 cm, with no neural involvement. Magnetic Resonance Angiogram showed feeders from the branches of the Right Subclavian and Right Axillary Artery and venous drainage into the Right Subclavian Vein. USG guided biopsy was done which showed benign spindle cell neoplasm. Patient underwent wide local excision under general anesthesia. The specimen was sent for histopathological examination which showed histological and immunohistochemical features in favour of Nodular Fasciitis.

DISCUSSION: Most nodular fasciitis lesions are solitary and occur in adults 20–40 years of age. Nodular fasciitis affects both men and women with equal frequency. Differential diagnosis of nodular fasciitis includes, fibrosarcoma, fibroma, fibrous histiocytoma, and desmoids and histopathology and immunohistochemistry play a key role in identifying the condition.

CONCLUSION: Owing to the size, location and findings of the Magnetic Resonance Angiogram we initially suspected a Soft Tissue Sarcoma, but to our surprise, on further investigation the mass was revealed to be Nodular Fasciitis.

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1. Introduction

Nodular Fasciitis, also known as infiltrative or pseudosarcomatous fasciitis, is a benign soft tissue tumour of fibroblastic/myofibroblastic differentiation, that was first described in 1955 by Konwaler et al. [1]. The lesion often comes to clinical attention when the patient presents with a rapidly growing, occasionally painful, palpable soft tissue mass [2,3]. Although nodular fasciitis is well accepted as a self-limited reactive process and not a true neoplasm, its precise etiology is unknown [4]. Most lesions are solitary and occur in adults 20–40 years of age [5–7]. Nodular fasciitis affects both men and women with equal frequency. It is found most commonly in the forearm (27%–29%), back or chest wall (15%–18%), and upper arm (12%) [5–7]. Patients may develop paresthesia if the mass exerts pressure on a peripheral nerve. Making a correct diagnosis of nodular fasciitis is important because of its striking resemblance to

a soft tissue sarcoma. Magnetic Resonance Imaging and histopathological examination, along with the clinical features, are the key to diagnosis. This case was managed in an academic setting. I hereby declare that my work has been reported in line with the SCARE criteria [17].

2. Case presentation

A 27-year-old male came to our hospital with complaints of a swelling in the right axilla for 2 and ½ years. It was insidious in onset and progressive in nature. The patient denied any history of pain, trauma, fever or weight loss. On examination, the swelling measured 12 cm × 10 cm, extending to the lateral border of the right scapula posteriorly, to the chest wall medially, to the apex of the axilla superiorly and to the 6th intercostal space inferiorly (Fig. 1). There was no warmth or tenderness noted. Skin over the swelling was normal and the surface was nodular. Dilated blood vessels were present over the surface of the swelling (Fig. 2). There were no visible pulsations, no discharge and no scars or sinuses. Movement of the shoulder joint was normal. The swelling was hard in consistency and not mobile. There were no palpable axillary or cervical lymph nodes. Baseline blood investigations were

* Corresponding author.

E-mail addresses: vatsal.khanna@yahoo.com (V. Khanna),

doctorts28@gmail.com (M. Rajan), reddy92@gmail.com (T. Reddy),

naveenalexander@yahoo.co.in (N. Alexander), drsuru@yahoo.com (P. Surendran).



Fig. 1. Pre-operative image of the swelling.



Fig. 2. Pre-operative image of the swelling showing vascularity.

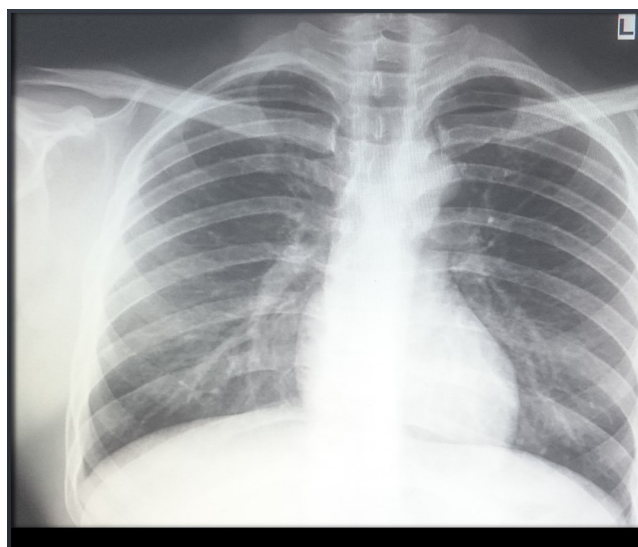


Fig. 3. Chest X-Ray showing no osteolytic lesions.



Fig. 4. MRI showing an irregular mass in the musculo-subcutaneous plane.

normal. Chest X-ray was normal and showed no osteolytic lesions of the right ribs or scapula (Fig. 3). Magnetic Resonance Imaging was done and showed an irregular mass in the right axilla in the muscular- subcutaneous plane measuring 10.8 × 8.8 × 12 cm. This mass was attached to the lateral border of scapula (Fig. 4) and displaced the subscapularis anteriorly. The infraspinatus, teres minor and teres major muscles were displaced posteriorly (Fig. 5). The lesion appeared iso to hyperintense to muscle on T1 and heterogeneously hyperintense on T2-weighted images. Multiple scattered areas of hemorrhage were noted within. The neurovascular bundle was seen displaced cranially. The lesion abutted the median, radial,

ulnar nerves and axillary vessels in few sections. The lesion abutted the serratus anterior on the medial aspect.

Magnetic Resonance Angiogram showed feeders from the branches of right subclavian and axillary arteries and venous drainage into the right subclavian vein (Fig. 6).

Ultrasound guided biopsy was done which showed benign spindle cell neoplasm possibly of fibrous origin with moderate to abundant collagen and no evidence of cytological atypia/increased mitosis or necrosis.

Patient underwent Wide Local Excision under General Anesthesia (Fig. 7). Intra-operatively, the tumour was found to be adherent to the scapula posteriorly and to the latissimus dorsi laterally. It abutted the axillary vessels and nerves cranially. The tumour was completely excised (Fig. 8) and sent for histopathology. Histopathological examination showed a well circumscribed, encapsulated spindle cell lesion. The cells were arranged in irregular bundles and fascicles along with a small amount of mature collagen. These cells appeared to be plump, immature myofibroblasts and fibroblasts.

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