

## Dermatofibroma: Common Tumour On An Uncommon Location And Age Group

Yuen JC, Jamari S, Shalimar A

Department of Orthopedic and Traumatology, Faculty of Medicine, University Kebangsaan Malaysia Medical Centre, Kuala Lumpur, Malaysia

### INTRODUCTION:

Dermatofibroma or superficial benign fibrous histiocytoma is a benign cutaneous lesion of unknown origin which presents as a common cutaneous nodule. It may develop at any age and location. Most commonly, it develops on lower extremities; however, it may develop on upper extremities with the hand being the atypical site. This case report presents a 5-year old girl with painful dermatofibroma of distal phalanx of her left hand which is a rare site of the lesion.

### CASE REPORT

A five years old Malay girl presented with painful swelling over the distal phalanx of the left middle finger for the last two months. Clinically, there was a firm, tender, well demarcated swelling over the volar aspect of distal phalanx of the left middle finger. The swelling was mobile with no skin changes.



Figure 1. Anteroposterior and lateral X-ray of left hand showing increase soft tissue shadow at the tip of left middle finger

Excisional biopsy was performed. Intra-operatively, a whitish soft tissue mass measuring 1 x 0.5 cm was removed. It was not attached to any soft tissue or bone. (figure 2)

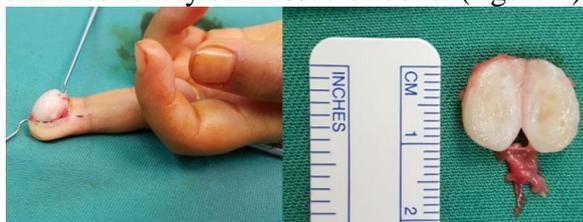


Figure 2. Whitish soft tissue mass at the left middle finger measuring 1 x 0.5cm

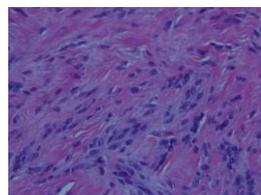


Figure 3. Histopathology of the soft tissue mass showed a circumscribed hypercellular tissue composed of bland spindle-shaped cells arranged in a whorl pattern in a collagenous background.

### DISCUSSIONS:

Dermatofibroma usually develops on lower extremities, shoulder, and buttocks of middle-aged adults with slight female dominance [1]. As mentioned above, hands and digits are atypical sites for this kind of lesion, Thus, our case is atypical in terms of site and age. Similarly, Han et al. [2] studied 122 specimens from 92 patients retrospectively. They reported that most of the cases of DF were from middle age with 70% lesions developed on extremities, while hand and feet being the least sites of the lesion.

### CONCLUSION

Although dermatofibroma is uncommon on fingers; however, it must be considered among differential diagnosis for any well circumscribed firm lesion on fingers at any age to avoid misdiagnosis.

### REFERENCES:

1. Jung, K.D., Lee, D.Y., Lee, J.H., Yang, J.M., Lee, E.S. (2011). "Subcutaneous dermatofibroma," *Ann Dermatol*, 23(2), 254-257.
2. Han, T.Y., Chang, H.S., Lee, J.H.K., Lee, W.M., Son, S.J. (2011). "A Clinical and Histopathological Study of 122 Cases of Dermatofibroma (Benign Fibrous Histiocytoma)," *Ann Dermatol*, 23(2): 185-192.