

INTRODUCTION

Onychomatricoma - uncommon, benign tumor specific to the nail apparatus arising from the nail matrix.

- Origin : onychodermis (CD10 positive)
- Often misdiagnosed as onychomycosis
- Majority of cases reported are from western countries.

CASE REPORT

Chief Complaints : A 41 -year- old -female presented with a 10-year history of black, thickened and over curved radial half of left middle finger nail

Physical examination (Image 1)

- Well-demarcated tubular thickening of the nail plate
- Longitudinal melanonychia
- Fullness at the base of the lesion near the proximal nail fold

Onychoscopy (Images 2 & 3)

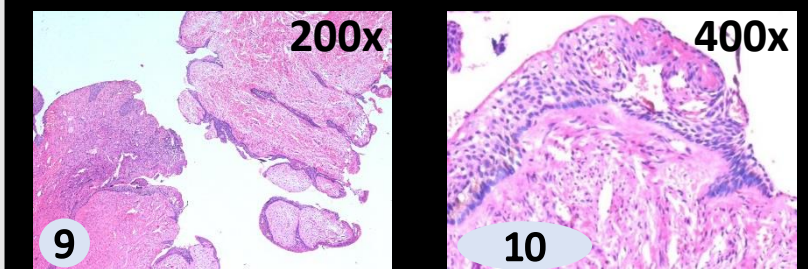
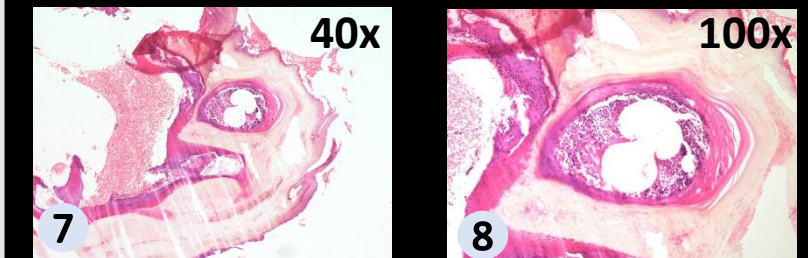
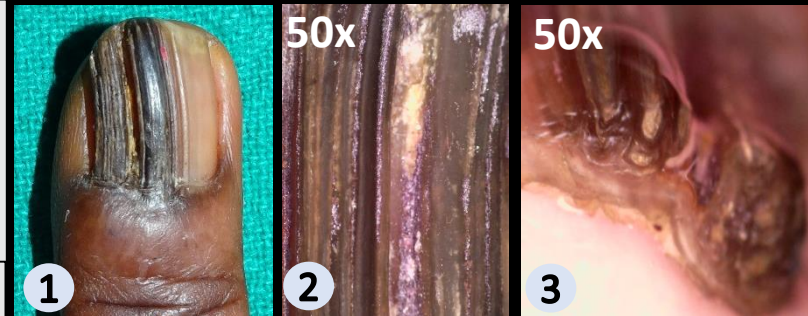
- Longitudinal parallel white lines
- Thickening and Multiple “wood worm” cavities (honeycomb appearance) at the free edge

Magnetic Resonance Imaging : Sagittal images

- Tumoral core in the matrix area
- Invagination of the lesion into the funnel-shaped nail plate

Intra-operative (Images 4 & 5)

- Proximal nail - appears as thickened funnel, storing filamentous digitations of matrix fitting into the holes
- “sea-anemone”-like villous tumor



HISTOPATHOLOGY :

Nail clippings - thickened nail plate with lacunae lined by epithelium (Images 7 & 8)

The mass of the tumor is composed of onychogenic fibroepithelial digitations divided into two anatomical zones (Images 9 & 10)

- **Proximal zone** : located beneath the proximal nail fold shows deep epithelial invaginations filled with a thick V-shaped keratogenous zone
 - **Distal zone** : corresponds to the lunula and is characterized by multiple “glove finger” digitations lined with matrix epithelium
- Connective tissue stroma** of the digitations extends deeply into the dermis

Treatment : Partial nail avulsion and tumor excision

Response to treatment : The nail plate continued to grow in the 2 months after the excision. (Image 6)

DISCUSSION

- Onychomatricoma is a slow-growing, painless tumor with delayed diagnosis.
- Histopathological examination is characteristic & confirmatory
- It affects mainly the finger (75%).
- Awareness is important to prevent misdiagnosis.
- Tumor excision is curative.

REFERENCES

Kamath P, Wu T, Villada G, Zaiac M, Elgart G, Tosti A. Onychomatricoma: A Rare Nail Tumor with an Unusual Clinical Presentation. *Skin Appendage Disord.* 2018;4(3):171–173. doi:10.1159/000484577.