

Unusual tumor of the toe

Ines Lahouel¹, Nesrine Ben Salah¹, Manel Njima¹, Monia Youssef¹, Hichem Belhadjali¹, and Jameleddine Zili¹

¹Fattouma Bourguiba University Hospital of Monastir

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Key clinical message: Giant Cell Tumor is a soft-tissue tumor that has a very low potential for malignant change. Involvement of the phalanges of foot is very rare and only a few cases have been reported.

Key words: Dermatology, oncology, Giant cell tumor, bone tumors.

A 39-year-old woman presented with complaints of pain and swelling of the left second toe for four months. The mass had been slowly increasing in size over the previous 3 years. On examination, there was diffuse swelling of the left second toe with erythematous and shiny overlying skin (Figure 1). The X-ray showed an osteolytic expansive lesion with cortical destruction in the region of the distal phalanx of the second toe. No calcification or periosteal reaction was observed. Magnetic resonance (MR) images showed a mass measuring 1×1.5 cm that was heterogeneously hypo intense on both T1- and T2-weighted MR images. This mass showed a marked, diffuse and heterogeneous enhancement on the contrast T1- weighted image. Surgical excision of the tumor was performed. Histopathological examination confirmed the diagnosis of Giant Cell Tumor (GCT) (Figure 2). The patient's postoperative course was uneventful, and no recurrence or metastasis was observed. GCTs are soft-tissue tumors that have a very low potential for malignant change. It account for approximately 6% of all bone tumors.^{1,2} It typically involves the long bones in young adults. ^{1,2} Involvement of the phalanges of foot is very rare and only a few cases have been reported.^{1,2}

Authors' contributions:

Ines Lahouel: Conceptualization; data curation; formal analysis; investigation; methodology; resources; validation; visualization; writingoriginal draft; writing-review and editing.

Nesrine Ben Salah: Conceptualization; data curation; formal analysis; investigation; methodology; resources; validation; visualization; writingoriginal draft; writing-review and editing.

Manel Njima: Investigation; methodology.

Monia Youssef: Investigation; methodology.

Hichem Belhadjali: Investigation; methodology.

Jameleddine Zili: Investigation; methodology; project administration; resources; supervision; validation; visualization; writing-original draft.

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Figure legends:

Figure 1: A diffuse swelling of the left second toe with erythematous and shiny overlying skin.

Figure 2: Proliferation of polymorphous cell population: mononucleus histiocytoid cells and numerous osteoclast-like giant cells (HEx200).

Data sharing not applicable-no new data generated



