Spacing of Toes Reveals Rheumatoid Nodulosis

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A gap between toes can be an indication of rheumatoid nodulosis, a relatively benign variant of rheumatic disease.

A 50-year-old woman presented with a 9-month history of a painful spacing of the third and fourth toes on her left foot (Figure 1). The patient had not experienced any trauma. Interdigital palpation found a painful mass. Besides diastasis of the third and fourth metatarsus, the foot radiograph showed no bone destruction or joint damage. Magnetic resonance imaging (Figure 2) showed an inter-capito-metatarsal mass corresponding to a collected zone with very little fluid (Figure 2, arrowhead), with thick walls strongly enhanced after gadolinium injection. Two other masses were found on the subcapito-metatarsal areas in relation to the plantar surface of the first and the third metatarsal head (Figure 2, asterisks). These lesions were considered multiple bursitis.

Biological tests revealed positivity of rheumatoid factor and anticitrullinated protein antibodies. A complete radiographic and ultrasonographic investigation did not

detect erosion or synovitis. An intralesion injection of steroids had only a transient positive effect, so the patient underwent surgery to remove the interdigital mass, with a pathological feature of a necrosis granuloma with eosinophilic necrotic center and polymorphonuclear neutrophils indicating a rheumatoid nodule. Meanwhile, the patient developed multiple rheumatoid nodules in the forearms, related to rheumatoid nodulosis. Rheumatoid nodulosis is a relatively benign variant of rheumatic disease¹. This is a rare case of foot rheumatoid nodules² revealing rheumatoid nodulosis.

REFERENCES

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Figure 1. The patient presented with painful spacing of the third and fourth toes of the left foot.

Figure 2. Magnetic resonance imaging showed an intercapito-metatarsal mass corresponding to a collected zone with very little fluid (▼). Two other masses were on the subcapito-metatarsal areas in relation to the plantar surface of the first and the third metatarsal head (*).