Case Report

Subungual exostosis: satisfactory aesthetic and functional outcome five years after exeresis

Exostose subungueal: resultado estético e funcional satisfatório cinco anos após a exerese

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ABSTRACT
Case report of a 16-year-old female patient with diagnosis of subungual exostosis in the right hallux with clinical and histopathological diagnosis, submitted to total excision of the lesion and follow-up for five years with excellent aesthetic result.

Keywords: exostoses; bone neoplasms; dermatologic surgical procedures

RESUMO
Relato de caso de paciente do sexo feminino de 16 anos de idade com diagnóstico de exostose subungueal no hálux direito com diagnóstico clínico e histopatológico, submetida a exérese total da lesão e acompanhamento durante cinco anos com excelente resultado estético.

Palavras-chave: exostose; neoplasias ósseas, procedimentos cirúrgicos dermatológicos
INTRODUCTION

Subungual exostosis is a benign bone tumor, encapsulated by fibrocartilage, which mainly affects the distal hallux phalange, with a higher occurrence in adolescents and young female adults. Its etiology remains unknown, with a probable association with previous traumas, which would explain its greater occurrence in the first toe. Clinically, it presents as a painful nodule or painful hardened tumor at the distal end that produces lifting and deformity of the nail. Among the differential diagnoses, malignant tumors, viral wart, fibroma, pyogenic granuloma or subungual osteochondroma can be cited. Performing an imaging examination, such as an ultrasound or radiography allows for the visualization of abnormal bone growth with opacity and soft tissue involvement. Histologically, the tumor consists of a trabecular bone nucleus surrounded by a fibrocartilage capsule. Treatment is based on surgical removal and follow-up to avoid local recurrences.

CASE REPORT

A 16-year-old patient, female, phototype II, presented a painful bone excrescence in the right hallux (Figure 1) during a dermatologic examination. An ultrasound of the preoperative lesion was performed, which elucidated the irregularity of the bone contour of the distal phalanx of the first toe. A complete marginal excision of the lesion was performed with the material that had been submitted for histopathological analysis, which confirmed the diagnosis of bone exostosis (Figures 2 and 3). Five months after surgery (Figure 4) both the radiography and ultrasound were unaltered, showing normal nail plates. During the postoperative period the patient was already saying how satisfied she was by the absence of pain and by the good appearance of the region. After five years, it was possible to observe an excellent aesthetic result, without nail dystrophy and absence of functional impairment of the affected hallux (Figure 5).
DISCUSSION

Subungual exostosis is a rare benign tumor, however it represents the bone condition most frequently associated with lesions in the nail, with probable traumatic etiology. The diagnosis is clinical and may be paired with radiography. In the case reported, the patient presented alteration on the distal phalanx with irregularity of the bone contour, characteristic of the disease. Pain is a very common symptom because it is a bone alteration. The presence of this symptom becomes important when considering differential diagnoses, such as malignant tumors, viral wart, fibroma, pyogenic granuloma or subungual osteochondroma. Surgical treatment with the resection of the whole tumor area is the recommended therapy, aiming to minimize damage to the nail bed and ungual matrix, and to avoid onychodystrophy, a common complication of the treatment. The patient in this case, after five years of the exeresis, presented excellent aesthetic result, without nail dystrophy, absence of functional impairment of the affected hallux, and, most importantly, no local recurrence.

REFERENCES