Images in Clinical Rheumatology

Synovial Osteochondromatosis of the Shoulder: Case Report and Literature Review

Osteochondromatosis sinovial de hombro. Reporte de un caso y revisión de la literatura

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Introduction

Synovial osteochondromatosis was described in 1833 by Laennec.1 Its worldwide incidence is reported to be 1:100,0002 and it is found in a greater number of men than women. The joint most frequently affected is the knee.3 The clinical signs are nonspecific and the diagnosis requires imaging techniques.4 The treatment at the present time is surgical and consists of resection of the chondral bodies.5,6

Fig. 1. Radiographs of the shoulder in true anteroposterior (AP), external rotation (ER) and internal rotation (IR) positions revealed the presence of multiple calcified bodies of the same size, distributed throughout the entire glenohumeral joint, as well as the subscapularis recess and the bicipital groove.

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Case Report

The patient was a 29-year-old woman who had a 4-year history of pain in right shoulder, associated with limitation of vertical abduction and characterized by an indolent course. When she visited her physician, she had detected another pain in the anterior region of her shoulder. She underwent imaging studies (Figs. 1 and 2), and the diagnosis was synovial osteochondromatosis.

Arthroscopic resection enabled the removal of chondral fragments, which were sent to the pathology laboratory for analysis. The result was a histopathological diagnosis of synovial chondromatosis (Fig. 3). The patient's postoperative course was satisfactory, and the pain disappeared.

Discussion

The findings observed (loose chondral bodies, joint effusion and generalized inflammatory changes) are compatible with reports in the literature, although, in this case, the patient was a woman.3

Ethical Disclosures

Protection of human and animal subjects. The authors declare that the procedures followed were in accordance with the regulations of the relevant clinical research ethics committee and with those of the Code of Ethics of the World Medical Association (Declaration of Helsinki).

Confidentiality of data. The authors declare that they have followed the protocols of their work center on the publication of patient data.

Right to privacy and informed consent. The authors have obtained the written informed consent of the patients or subjects mentioned in the article. The corresponding author is in possession of this document.

Conflicts of Interest

The authors declare they have no conflicts of interest.
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