Methods: We reviewed the clinical records of patients under the age of 50 who consulted for direct non-traumatic hip joint pain. Only cases with less than one week of evolution were included. Patients who consulted on weekends or in the afternoon were not included in this register because of the lack of immediate ultrasound study during these periods of time. We excluded those patients who, during the consultation, acknowledged having used anti-inflammatory drugs in the last 24 hours and those whose records are incomplete. The ultrasounds were performed with a portable Logiq e ultrasound machine, equipped with a linear probe of up to 12MHz.

Results: Between 2014 and 2017, 211 patients under 50 years of age consulted for non-traumatic mechanical groin pain. Excluding patients who consulted outside of the immediate ultrasound study access hours, who had recently taken NSAIDs and whose clinical records were incomplete, we reviewed 116 clinical and image records. The mean age of the patients whose records were included was 37.8 SD 8.5. The mean time in days, between the consultation and the onset of symptoms according to history constancy was 4 SD 2. 59 subjects were male (50.9%). In the physical examinations described in the reports, 29 patients (25%) presented painful passive manoeuvres, 38 (32.8%) presented painful active manoeuvres, and 22 (19%) could not maintain standing due to the impossibility of loading due to coxofemoral pain. Regarding the ultrasound findings, 5 patients presented unequivocal capsular distension at the level of the upper anterior labrum (4.3%) and 32 (27.6%) presented distension of the anterior recess. One patient with capsular distension was finally diagnosed with OHA and another with APso.

Conclusion: Our results show that in the studied population (<50 years old, non-traumatic coxofemoral pain of sufficient intensity to be consulted in the emergency department in less than 7 days of evolution) synovitis is a finding present in a quarter of patients and that it is severe in approximately 4%. Its strong association with incapacity for load and passive joint dysfunction would condition the incorporation of these findings in therapeutic decision making, including -in these cases- rest in unloaded. On the other hand, the absence of synovitis in 1/3 of the patients strongly suggests a muscular etiology that with high probability will respond positively only to NSAIDs. The incorporation of ultrasound, in our opinion, plays a role of diagnostic clearance when the semiological exploration is doubtful.


THUO504

ROTATOR CUFF CALCIFICATION AND SHOULDER PAIN: A CLINICAL AND ECHOGRAPHIC STUDY OF 465 PATIENTS

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Background: Shoulder pain is a common cause for medical consultation and is commonly linked to lesions of the rotator cuff. Rotator cuff calcification (due to BCP crystal deposition) is also a common finding and can give rise to chronic pain as well as acute inflammatory episodes.

Objectives: The goal of the study was to compare the clinical and the echographic characteristics of patients with BCP calcification in the rotator cuff and shoulder pain to those with no signs of calcification.

Methods: A retrospective case-control study of 465 patients whose primary complaint was shoulder pain presenting between 1997 and 2011 and seen by one rheumatologist. 125 patients who had rotator cuff calcification (RCC) were identified and constituted the study group. We compared the patients with RCC with 125 patients without calcification who were randomly extracted from the same registry which constituted the control group. All had detailed demographic and clinical documentation as well as a precise description of the echographic findings. Subgroups

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THUO503

ICONOGRAPHIC STUDY OF ACUTE MECHANICAL HIP PAIN IN YOUNG PATIENTS: CLINICAL-ULTRASONOGRAPHIC CORRELATE AND PROPOSAL OF DIAGNOSTIC-THERAPEUTIC ALGORITHM

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Background: Coxarthrosis is the first cause of mechanical pain and functional limitation of the hip joint, however its prevalence in subjects over 65 years is much higher than the incidence of these symptoms so its causal link is not complete. In a young population, mechanical groin pain of acute origin is usually linked to periarticular processes mainly related to adductor muscles, psoas and tendons with peritrocanteric entheseis. In the routine approaches of these patients, when they consult, the simple radiological study is included and it is usually treated with NSAIDs, assuming tendinopathy as a diagnostic process.

Objectives: The purpose of this study is to determine the ultrasound characteristics of the coxofemoral joint of patients who consult for acute inguinal pain, correlate it with its clinical presentation and propose a reasoned strategy for its management.