SEPTIC ARTHRITIS IN A HIV POSITIVE HEMOPHILIA A PATIENT

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INTRODUCTION

Septic arthritis is a rare complication of either HIV infection or hemophilia alone, but occurs with an exceedingly high prevalence in hemophilia patients infected with HIV.

The clinical picture mimics that of haemarthrosis, often causing a delay in diagnosis, but there are some important distinguishing criteria speaking in favour of septic arthritis: fever, elevated peripheral leucocyte count and increasing complaints despite normalisation of the coagulation defect.

The localization is exclusively to joints affected by haemophilic arthropathy.

CASE REPORT

• 22 year old severe hemophilia A patient, without inhibitors to factor VIII.
• HIV-infected since 1985.
• He has been on factor VIII on demand and is no-compliant regarding HIV follow-up.
• One of his target joints is the right elbow.
• When he was admitted to hospital he was complaining of pain in the right elbow of five day’s duration, which he thought was caused by a haemarthrosis.
• He was being treated daily, at home, since the beginning of the complaints with increasing doses of factor VIII concentrate (2000 to 3000 IU), without clinical improvement and one week prior the symptoms, he had an upper tract infection that was being treated with clarithromycin per os.
• The physical examination revealed a warm, erythematous, swollen, tender elbow joint (Fig. 1). The patient’s temperature was 38.5 degrees Celsius.

CASE REPORT

• The leucocyte count was 4600 cells/mm³, higher than the patient usually has (around 2000 cells/mm³).
• The sedimentation rate was 96 millimeters/hour (table 1).
• The elbow joint was aspirated and a sero-hematic fluid was obtained.
• Fig. 2 Fig. 3 Table 1
• The cultural examination was positive for S. aureus (Fig. 2) and antibiotic treatment was changed to gentamycin plus cephalaxin I.V., according to the antibiotic sensibility test.

DISCUSSION

Since the advent of human immunodeficiency virus (HIV) infection there has been an increased incidence of septic arthritis due to both usual and unusual organisms and it has been assumed that a transient bacteremia is the source of the joint infection. Thus the diagnosis of septic arthritis should be considered in a hemophilic who develops a haemarthrosis associated with fever and a poor response to coagulation factor concentrate and immobilisation. Because of their immunosuppression, HIV infected patients do not mount a neutrophil response to sepsis and the white cell count is often normal or low. Arthroscopy or arthroscopic lavage is the usual treatment for an infected joint. However due to the risk of this procedures some authors recommend in this patients, as first line therapy, appropriate antibiotic therapy and prompt rehabilitation of the affected joint.

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