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AB0906 PYOGENIC SEPTIC ARTHRITIS: IS THERE A DIFFERENCE WHEN GERM IS NOT IDENTIFIED?

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Background: Pyogenic septic arthritis (PSA), defined by the presence of living microorganisms in the affected joint, is a therapeutic emergency. Germ isolation is a primordial step in the diagnostic and therapeutic approach.

Objectives: The aim of this study was to study the differences between PSA with positive and negative bacteriology.

Methods: This is a retrospective study which included medical records of patients treated for PSA in a rheumatology department over seventeen years. The epidemioclinical and paraclinical data were recorded. We used the SPSS 11.5 for the statistical analysis to compare patients with (group 1) and without an isolated causative agent (group 2).

Results: We evaluated 49 patients with a diagnosis of PSA. They were 26 (53.1%) men and 23 (46.9%) women. The average age was 55+/-18.7 years (ranging from 15 to 95 years). Comorbidities were observed in 31 (63.3%) patients. The onset of symptoms was acute in 37 (75.5%) patients and progressive in 12 (24.5%) patients. The most common symptoms were joint pain and stiffness (100%) and functional impotence (87.8%). All patients were treated with double or triple antibiotics. Among the studied patients, 27 (55.1%) had negative culture results. Statistical analysis used to compare cases with an isolated pathogen to those cases without an isolated pathogen, noted female predominance in group 2 but there was no statistically significant difference (p=0.252). Patients in group 1 and group 2 had a comparable mean age (p=0.08). Patients in both groups had comparable risk factors for PSA (p=0.549). Acute onset was more common in group 2 (51.4% versus 48.6%) but without a significant difference (p=0.507). Biological inflammatory syndrome was more frequent in group 2 but with no statistically significant difference (p=0.235). The study of the appearance of the synovial fluid did not demonstrate a statistically significant difference between the two groups (p=0.125). The abnormalities of standard x-rays were similar in both groups (45.2% in group 1 versus 54.8% in group 2, (p=1)). The statistical study of all other variables didn't show differences between the two groups.

Conclusions: PSA was not associated with major differences if the germ was or not isolated.

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AB0907

CONTRIBUTION OF IMAGING IN THE DIAGNOSIS OF INFECTIOUS SPONDYLODISCITIS

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Background: Infectious spondylodiscitisis represents a diagnostic and therapeutic emergency. Imaging is fundamental in the management of the disease.

Objectives: The aim of this study is to analyze the contribution of imaging in the diagnosis of infectious spondylodiscitis.

Methods: This is a retrospective study which included medical records of patients treated for psoas abcess during the twelve past years [2006-2016]. Epidemiologic, clinical, and imaging data (Standard X ray, Computed tomography (CT), magnetic resonance imaging (MRI)) were recorded and analysed.

Results: Ninety patients were included in this study. The average age was 55 years [16-86] with an even distribution between males and females. Mean symptom duration was of 4 months. The most frequently isolated pathogen was Mycobacterium tuberculosis (63.3%), followed by pyogenic germs (21.2%) and Brucella (15.5%). Standard X ray were pathological in 89% of cases: showed narrowing of intervertebral space (72.2%), endplate destruction (42.2%), erosions of vertebra (13.3%), opacity (12.2%), vertebral fracture (10%), paravertebral spindle (5.5%) and posterior archlysis lesion (2.2%). Standard radiographswere normal in 12 cases and in 1 case, spinal CT showed vertebral destruction wirh " mirror-image ". Spinal MRI, performed in the remaining 11 cases, confirmed the diagnosis in all cases and showed paravertebral collections (n=3), epiduritis (n=3), psoas abscess (n=2), microabscess (n=1) and spinal compression (n=1). In case of posterior archlysis lesion and vertebral fracture, MRI confirmed the diagnosis by showing paravertebral collections.

Conclusions: Management of infectious spondylodiscitis has benefited from advancements in imaging allowing an early diagnosis and treatment.

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AB0908 BIOLOGICAL AND RADIOGRAPHIC FINDINGS IMPACT ON GERM IDENTIFICATION DURING SEPTIC ARTHRITIS

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Background: Septic arthritis may cause damage and inflammation in short period of time. The germ determination must be the first objective to allow targeted treatment. Bacteriological tests remain negative in 7-35% of cases of septic

Objectives: The aim of this study was to determine the impact of biological and radiographic findings on germ identification during septic arthritis.

Methods: This a retrospective study which included medical records of patients treated for septic arthritis during the seventeen past years. Epidemiologic, clinical, biologic, bacteriologic and therapeutic data were recorded and analysed. We made a comparison between patients who had a germ identified (Group 1) with whom who hadn't (Group 2).

Results: Fifty nine patients with septic arthritis were included in this study. The mean age of the patients was 54.6±19 years and a sex ratio (F/M) of 0.9. Causative agents were isolated in 27 patients (45.7%). Biological data showed leukocytosis in 25 (42.4%) patients. Mean leukocyte count was 10673±5003. Leukopenia was noted in 1 case. One patient had neutropenia. Lymphopenia was observed in 4 patients (6.7%). Two patients had hyperlymphocytosis. Anemia, mainly of the inflammatory type, was noted in 47 cases (79.66%). The mean Creactive protein (CRP) was 150.6±106, and the mean erythrocyte sedimentation rate (ESR) was 104.9. Twenty three patients (38.9%) had other perturbations of the biological balance: cholestasis (n=1), cytolysis (n=4) and renal perturbation (n=15). Radiological signs suggestive of septic arthritis were observed in 40 cases (67.8%): articular pinching (28.8%), geodes and erosions (14%), total destruction of the joint (0.67%) or thickening f the soft parts at the beginning (11.86%). Ultrasound exam, performed in 22 cases, showed articular effusion (n=15), synovial thickening (n=8), a soft tissue collection (n=3), and periarticular erosion (n=2). CT, performed in 6 patients, was normal in one case. The abnormalities noted were: collection of soft parts (n=2), joint effusion (n=2), bone demineralization (n=1), bone erosion (n=1) and osteochondritis (n=1), MRI. performed in 2 patients, was pathological in both cases and showed synovitis and cortical erosion with medullary edema. The comparison of the 2 groups according to germ identification showed that biological inflammatory syndrome was more frequent in group 2 (100% versus 96.8%) but without a statistically significant difference (p=0.346). Mean value of CRP and ESR were comparable in the two groups (p=0.65 and 0.19). The mean value of hemoglobin was comparable in the two groups (10.87 versus 10.54 g/dl) (p=0.566). It was similar about the blood count. Abnormalities of standard x-rays were similar in both groups (70.4% in group 1 versus 65.5% in group 2) (p=0.784). The most frequent radiological abnormality in the two groups was articular pinching (40.7% in group 1 and 46.8% in group 2).

Conclusions: In our study, the biological and radiological data had not shown any impact on the identification of the germ.

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SEPTIC PSEUDARTHROSIS OF THE HUMERUS TREATMENT **USING ORTHFIX EXTERNAL FIXATION**

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Background: The septic pseudarthrosis of the humerus is a very difficult process that poses a towfold challenge: the infection eradication while trying to get consolidation

Objectives: The aim of this study was to analyze the results of the treatment of septic pseudarthritis of the humerus with Orthofix monolateral axial external

Methods: This is a retrospective study which included 17 medical records of patients treated for septic pseudarthritis of the humerus debridement and stabilization by Orthofix over a period of 7 years.

Results: They were 13 women and 4 men with a mean age 44 years. The fracture site was most often at the distal half of the humerus. The initial treatment of the fracture was pinning or intramedullar nailing. Surgical management of pseudoarthrosis was performed 3.5 months after the first surgical procedure. All cases had a bone debridement and stabilization with a monoplane Orthofix axial external side. Fifteen cases had also a bone graft. The mean period of stabilization was 7months. Patients were evaluated clinically and radiologically each month. At the mean of three years of follow-up, we obtain osseous consolidation for all patients in the average of seven months. All patients underwent rehabilitation of the shoulder and elbow after treatment. The functional result were excellent results in 47% of cases, good results in 35,3% of cases and poor results in 17,7%. The Quick DASH score average was 28±5. The average of the elbow motion was 109 ° of flexion with an average of 30 °of deficit in extension. The useful range of motion of the elbow was preserved in 14 patients. There was a shaft angulation under 20 ° in 3 cases and over 20 ° in 3 other cases. We noted