LOW DOSE COLCHICINE COMBINED WITH SPORADIC INTRAMUSCULAR INJECTIONS OF BETAMETHASONE – EFFICIENT AND SUSTAINED TREATMENT OF ACUTE GOUTY ARTHRITIS

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Background: Gouty arthritis is a common, potentially disabling and increasingly prevalent disease [1]. The main goals of treatment are to treat acute arthritis, decrease uric acid (UA) levels and prevent occurrence of further attacks. According to 2016 updated EULAR evidence-based recommendations for the management of gout, the most common and efficient options include prescription of colchicine (up to 6 mg) and intra-articular injections of glucocorticoids (GC) [2]. First option often causes diarrhea, the latter is extremely traumatic and painful in this group of patients.

Objectives: The aim of this study was to determine the efficacy of sustainability of anti-inflammatory effect of combination of low dose colchicine with sporadic intramuscular injections of betamethasone in the treatment of acute gouty arthritis.

Methods: 41 treatment naïve patients with acute gouty arthritis (27 male (65.9%), 14 female (34.1%), mean age 55.9 ± 13.7 years, mean disease duration 5.9 ± 4.4 years) were recruited in the study. On the first visit all the patients were pre-enrolled. All patients received colchicine (up to 6 mg) and low dose intramuscular injections of betamethasone in the treatment of acute gouty arthritis.

Results: On the second visit (30th day) all investigated measures with exception for UA (sUA, 8.8 ± 1.9 mg/dl, p<0.05) had shown significantly lower results: CRP, 4.9± 3.5 mg/dl; VAS, 4.2± 1.2 cm; GAS, 4.9 ± 0.7 (p<0.001).

On the third visit (60th day) the following results were obtained: sUA, 4.7 ± 1.3 mg/dl; CRP, 3.5±2.0 mg/L; VAS, 3.3±2.1 cm; GAS, 3.7±0.9. All the measures were significantly lower than at baseline (p<0.001).

During all the follow-up period recurrent attacks of arthritis were observed in 6 patients (14.6%), particularly, only 2 patients experienced arthritis after the prescription of ULT.

Conclusion: Low dose colchicine in combination with sporadic (1-2) intramuscular injections of betamethasone can present as an efficient, non-traumatic, safe and cost-effective option for the treatment of acute gouty arthritis. Moreover, according to results of our study, anti-inflammatory effect was stable even after the prescription of ULT.

Disclosure of Interests: None declared

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DIAGNOSTIC ACCURACY OF THE NIJMENGEN SCORE FOR GOUTY ARTHRITIS IN PATIENTS HOSPITALIZED FOR ACUTE MONOARTHRITIS

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Background: The gold-standard for diagnosis of gout is the identification of monosodium urate (MSU) crystal in joint fluid. However, the sensitivity, specificity, and reproducibility of such analysis are not excellent, and joint aspiration is sometimes difficult, or impossible. The Nijmegen score is an easy-to-use rule without joint fluid analysis with excellent validity, in primary as well as in secondary care (1, 2). However, it’s validity as not been evaluated in the particular situation of patients whose acute arthritis necessitates hospitalization.

Objectives: The objective of the present study was to assess diagnosis performance of the score in patients hospitalized for acute monoarthritis.

Methods: Inclusion: all patients hospitalized for acute monoarthritis in the rheumatology department of the Dijon University Hospital between 2016 and 2019. Assessment: 1- clinical examination by an experimented rheumatologist; 2- joint aspiration and synovial fluid analysis following aspiration; 3- ultrasound (US) examination of the knees, first metatarso-phalangeal joints, and arthritic joint by a trained rheumatologist; 4- dual-energy computed tomography (DECT) of the arthritic joint; 5- Nijmegen score (cutoff scores of ≥ 8 needed for diagnosis of gout, and ≤ 4 to rule out gout) and ACR/EULAR 2015 classification criteria (3) (cut-off score of ≥ 8 needed for diagnosis of gout). Analysis: positive and negative predictive values, and ROC curve analysis of the Nijmegen score, using as gold-standard on one hand the results of the MSU crystal research, on the other hand those of the ACR/EULAR criteria.

Results: A total of 38 patients were included (mean age = 69.8 ± 15 years, 74.4 % males, mean BMI = 27.5 ± 4.6 Kg/m2, mean serum uric acid = 354.6 ± 117.5 mmol/l). The affected joints were the knee (n = 31), ankle (n = 3), hip (n = 2), wrist (n = 2), shoulder (n = 1). Joint fluid analysis revealed MSU crystal in 11 patients. The ACR/EULAR was ≥ 8 in 15 patients. The Nijmegen score was ≥ 8 in 11 patients, including 5 with MSU crystal on joint fluid analysis and 9 with an ACR/EULAR score ≥ 8. The Nijmegen score was ≤ 4 in 15 patients, including 14 with no MSU crystal on joint fluid analysis and 14 with an ACR/EULAR score < 8. The positive predictive values of a Nijmegen score ≥ 8 were 45 % (joint fluid analysis as gold standard) and 81.8 % (ACR/EULAR). The negative predictive values of a Nijmegen score ≤ 4 were 93.3 % (joint fluid analysis and ACR/EULAR as gold standard). On ROC curve analyses, the areas under the curve were 0.76 (95% CI = 0.612 – 0.914) using joint fluid analysis as gold standard (figure 1) and 0.908 (95% CI = 0.814 – 1.0) using the ACR/EULAR score as gold standard (figure 2).

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