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15 mg 1 per day. For 6 months 3rd group (n=54) received diacerein 50 mg twice a day and the 4th group (n=32) - chondroitine sulfate (CS) 500 mg twice daily. 5th group (n=30) received glucosamine sulfate (GS) 400 mg 3 times per week for 1.5 months. It was estimated dynamics of VAS, WOMAC, Lequesne, uric acid (UA), CRP, IL-18, IGF-1, NO, ESR, biochemical indicators, Statistical analysis - SPSS Statistics

Results: Nimesulide compared to meloxicam found more effective for WOMAC index, the reduction of pain, stiffness and functional failure 53.93% vs 37.3%, 29.7% vs 13.5%, 41.6% vs 26.6% respectively. Only nimesulide decreased NO by 40.2%, and showed a decrease trend of UA from 375,33±24,6 to 321.57±19.6 mkmol/l while meloxicam had no effect on their levels. In 60% of patients with OA was found hyperuricemia with nephrolithiasis. Was showed the relation between the severity of OA and the presence of hyperuricemia by VAS, Lequesne, WOMAC, lesions more number joints, higher stage of X-ray progress. Diacerein, CS and GS showed clinical effect on pain reduction by VAS, Lequesne, WOMAC (p<0.05), respectively. Was showed lower levels of CRP, IL-1, NO during treatment by diacerein (CRP from 5,6 (IQR: 3,6-8,0) to 3,0 (IQR: 1,95-4,3) mg/l, IL-1 from 19,47 (IQR: 15,22-23,81) to 12,0 (IQR: 9,0-16,2) pg/ml, NO of 4,09 (IQR: 3,0-4,19) to 2,2 (IQR: 1,0-3,44) mmol/l), CS (CRP from 6,0 (IQR: 3,25-9,0) to 3,10 (IQR: 1,81-6,0) mg/l, IL-1 20,0 (IQR: 11,5-26,52) pg/ml to 16,7 (IQR: 9,80-18,62) pg/ml, NO of 3,0 (IQR: 2,05-4,00) to 2,0 (IQR: 2,0-3,0) mmol/l) and GS (CRP from 6,0 (IQR: 4,0-8,45) to 4,0 (IQR: 4,0-6,0) mg/l, IL-1 from 4,69 (IQR: 2.5-7,59) to 2,52 (IQR: 1,75-3,94) pg/ml, NO 3,28 (IQR: 2,02-4,79) to 2,37 (IQR: 1,59-3,03) mmol/l) (p<0,05). Diacerein reduced UA from 415,5 (IQR: 347,0–452,5) to 374,0 (IQR: 318,75–423,5) mkmol/l (p=0.001) and glucose from 5,1 (IQR: 4,8-5,8) mmol/l to 4,88 (IQR: 4,00-5,40) mmol/l (p=0.0001). CS in patients with hyperuricemia (p=0.001) increased the level of UA, which reduced the efficacy of CS, but without hyperuricemia didn't influence the level of UA and efficacy of CS.

Conclusions: Was showed that nimesulide is more effective than meloxicam during first 14 days, and reduces NO, an important proinflammatory factor. The presence of hyperuricemia in 60% patients with OA, resulted in a more severe OA. Diacerein decreases UA and glucose, given an advantage in treatment these patients, which isn't presented with CS (which increased UA).

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AB0813 PROPOSAL FOR THE CONSTITUTION IMPLEMENTATION AND **DEVELOPMENT OF THE PROGRAM OF CENTERS OF EXCELLENCE IN OSTEOARTHRITIS IN LATIN AMERICA**

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Background: Osteoarthritis (OA) is the most prevalent disease in the Americas, with an estimated prevalence of 5-10% of the population. These patients have difficulties accessing the clinic, as well as poorly successful therapeutic programs. We plan to develop a program of Centers of Excellence (CoE) in OA, to meet and respond to these needs, generate data and local research applicable to our health systems.

Objectives: In a first phase: To create OA pilot centers in Venezuela and Colombia under the CoE scheme, defined in REAL-PANLAR project (Panamerican league of associations for rheumatology project for implementation of CoE in Rheumatoid Arthritis). In a second phase under the auspices of PANLAR to create the Pan American Network of Centers of Excellence in OA (CEOA).

Methods: A systematic review of the literature in global and regional databases (Pubmed, Medline, Scopus, Lilacs) was conducted and through a Delphi-modified methodology and a consensus of experts, naming a coordinator by subject, we established the conceptual bases and defined OA Center of Excellence.

Results: The group proposes: 1. Clinical detection and early diagnosis of OA, discarding false positives and diagnosing early OA; 2. Model of patient-centered and multidisciplinary care: frequency of care are to be established according to the conditions of the patient and the multidisciplinary team. 3. Implementation of a specific clinical register of OA with indexes such as WOMAC, Lequesne and also EuroQol and definition of socioeconomic characteristics. 4. Paraclinics and Imaging: Each patient will be given a general laboratory study at admission and then every two years including a metabolic profile. Conventional Rx of hands, hips, knees or lumbosacral column depending on the location and then annual or depending on the evolution. Ultrasound, upon admission to the program, six month later, if synovitis was detected, for redefining the treatment and then annually for evaluation of the articulatory damage; CT and MRI when deemed necessary (OMERACT) 5. Definition of the disease management program in axes: treatment protocol of pain with sequential treatment lines, DMOADs, viscosupplementation, Glucosamine + Chondroitin, Strontium Ranelate, Piascledin; Alternative Medicine

and Surgical Treatment 6. Establishment of a management program that includes Structure, Process and Outcome Indicators to define the CEOA as Standard, Optimal and Model. 7. Education modules for patients and families; Continuing Medical Education for all members of the multidisciplinary team; Generation of research in the areas above mentioned.

Conclusions: The unmet needs in OA determine the implementation of units of CEOAs, to promote management knowledge, and define T2T strategies, in order to improve clinical outcomes, reducing disability and consequently economic and social costs

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AB0814 MEDIAL SHIFT OF THE TIBIAL ARTICULAR SURFACE SHOULD BE TAKEN INTO ACCOUNT FOR ONE FACTOR OF MEDIAL OSTEOARTHRITIS OF THE KNEE

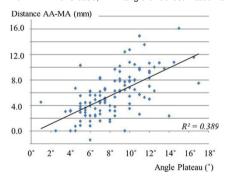
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Background: Varus knee is one factor of medial osteoarthritis of the knee. According to the concept of the constitutional varus¹⁾, the bone growth disturbance at the growth plate in the medial proximal metaphysis of the tibia results in proximal tibia vara. In this situation, the tibia is bent at the proximal metaphysis and the tibial articular surface (TAS) may be shift medially. The medial shift of the TAS will increase the mechanical loading in the medial side of the knee. The medial shift of TAS will also influence the value of the Hip-knee-ankle (HKA) angle because the tibial plafond that is the end point of the mechanical axis (MA) of the tibia will shift laterally.

Objectives: The purpose of this study was to assess the extent of the medial shift of TAS in knees with medial osteoarthritis, and to assess the effect of this medial shift of TAS on the value of HKA angle.

Methods: This study consists of 116 knees with medial osteoarthritis. The mean age was 75.3 years old. The mean standing femorotibial angle (FTA: lateral angle between femoral and tibial anatomical axes) was 183.6°. The anatomical axis (AA) was the central line of the femoral and the tibial shaft. On the anteroposterior view radiograph of the tibia. AA, MA and tibial plateau tangent were drawn. MA is the line between the center of the tibial spines notch and the center of the tibial plafond. Two angle parameters and two distance parameters were measured. Those are angle between AA and MA (Angle AA-MA) (the value was positive when MA located medial to AA), angle between the tibial plateau tangent and the line perpendicular to AA (Angle plateau), distance from AA to the center of the tibial spines notch on the tibial plateau (Distance AA-MA) (the value was positive when Point M located medial to AA), and the length of MA.

Results: The mean (±SD) Angle AA-MA and Angle plateau was 1.0° ± 0.6° and 8.2° ± 2.9°, respectively. The mean Distance AA-MA and length of MA was 5.6±3.4mm and 347.3±3.4mm, respectively. Figure 1 shows the relationship between Angle Plateau and Distance AA-MA. The correlation coefficient between two parameters was 0.62. The more proximal tibia had varus deformity, the more the tibial articular surface shifted medially. The maximum Distance AA-MA was 16.1mm. In this case, HKA angle underestimated varus deformity up to 3°.



Conclusions: The knees with proximal tibia vara have medial shift of the tibial articular surface. There are three factors to influence the evaluations of the medial osteoarthritis of the knees. Firstly, varus knees have higher loading condition in medial compartment because of proximal tibia vara and medial shift of the tibial articular surface. Secondly, HKA angle under-estimates varus deformity in knees with medial shift of the tibial articular surface. Thirdly, FTA cannot reveal the exact loading condition, either. Even with the same FTA, it is clear that loading in the medial compartment is larger in knees with medial shift of the tibial articular surface compared with knees with simple medial osteoarthritis. The medial shift of the tibial articular surface should be taken into account for one factor of medial osteoarthritis of the knee.