AB0307

PREDICTIVE VALUE OF THE BASELINE CLINICAL, LABORATORY AND ECHOSONOGRAPHIC PARAMETERS OF RA ACTIVITY IN PROGRESSION OF STRUCTURAL DAMAGE IN DMARDS NAIVE EARLY RA PATIENTS – 6 MONTHS FOLLOW-UP.

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Background: The structural damage of RA usually develops within the first two years of disease and the risk of joint destruction is still difficult to predict. Objectives: To assess predictive value of the clinical, laboratory and echosonographic parameters activity of early RA in progression of structural damage in DMARDS/glucocorticoid naïve patients in the first 6 months. Methods: Sixty-five pts. (56 females, mean age 53±14.1 years) with early RA (EULAR/ACR 2010 criteria) and symptoms duration of ≤1 years. (mean duration of 3.6 months) were included during the 2012–14 years, and followed up 6 months. Patients were DMARDS/glucocorticoid naïve and had no X-ray visible structural damage. The ES tur, CRP, RF, RA, and MMP and were measured. DAS28 index was calculated. US assessment was performed blindly to patient's medical history, on the same day when early RA diagnosis was established and repeated after 6 months, using 18MHz linear probe by ESAOTE My Lab 70 machine. Presence of bone erosions and Power Doppler (PD) signal, were recorded at each hand’s joint, as well as at MTP1–5 joints of both side, according to OMERACT US group definition. The semi quantitative method (0–3) was applied for assessing US synovitis and total Power Doppler joint score (TPDs)/pts. was calculated.

Results: Fifty-nine pts. had finding of US bone erosions at baseline visit and 62 pts had it after 6 months. The significant increase of bone erosions and significant decrease of TPDJs/pts were found after follow-up (2.2 vs. 3.1 respectively; 10. vs. 4.5 respectively; Wilcoxon test: p<0.001). There was no statistical significant difference between the groups of pts. with (42 pts.) and without (23 pts.) new (≤1) US bone erosion after 6 months regarding value of ESR (41. vs. 39; p=0.973), CRP (18. vs. 11; p=0.295), RF (82. vs. 114; p=0.652), ACRA (184. vs. 319; p=0.784) MMP3 (110. vs. 83; p=0.245), DAS28 (5.7. vs. 5.3; p=0.269), total number of bone erosions (2. vs. 2; p=0.06) and TPDJs/pts (10. vs. 12; p=0.831). Univariate logistic regression analysis showed significant predictive value for US bone erosions finding at baseline visit OR 0.68 (0.48–0.98); p=0.04 for progression of structural damage after 6 months of follow-up but not for value of: ESR OR 1.28 (0.45–3.61), CRP; OR 2.75 (0.95–7.93), p=0.06; RF: OR 0.83 (0.30–2.30), p=0.726; ACRA OR 0.96 (0.33–2.78), p=0.904; MMP3: OR 1.28 (0.42–3.88), p=0.656; DAS28: OR 1.23 (0.82–1.86), p=0.311 and TPDJs/pts OR 0.98 (0.93–1.02), p=0.344.

Conclusion: Initial finding of US bone erosion is the most important risk factor for progression of structural damage with our DMARDS/glucocorticoid naïve early RA patients in the first 6 months of disease duration.

REFERENCE:

Disclosure of Interest: None declared

AB0308

IMPORTANCE OF PATIENT EDUCATION FOR MANAGEMENT OF RHEUMATOID ARTHRITIS PATIENTS

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Background: People living with chronic diseases such as rheumatoid arthritis (RA) are extremely in need to Patient education (PE) which enables them to cope and adapt with their disease and treatments. PE comprises all educational activities provided for patients, including aspects of health and therapeutic education and promotion. Evolutions have been seen at the last five decades of the patient/clinicians relationship, where the patients can share in decision-making (Midwimi Ndoosi and Ade Adabao, 2015).

Objectives: To evaluate the effect of PE program following the eight evidence-based EULAR-2015 recommendations in the management of RA patients.

Methods: Comparative study with randomised parallel two arms with ratio (1:1) conducted on 100 rheumatoid arthritis (RA) patients (both sexes), aged 19–71 years patients were carried out at the Department of Rheumatology and Rehabilitation-faculty of medicine of Fayoum University, Egypt. Patients are excluded if they had evidence of mental disorder or psychiatric diseases. Patients can leave the study at any time for any reason. Two main comparable groups; group I received health education through designed Health education program, Group II were not prone to health education program. Disease activity and disability of patients were assessed prior to the commencement of the program, (visit I pre-intervention), 3 months later (Visit II post-intervention) and 6 months after the first visit (Visit III post-intervention). Intervention: A PE program designed by authors addressed EULAR 2015 recommendation of patient education and tailored according to each patient condition. Groups of 8–10 participants randomised to intervention arm attended 1 session each week for 6 consecutive weeks, with each one hour in duration, and then one session every two weeks until the second assessment visit (Visit III). Results: While 50 patients of group I continued at the end of the study, out of 50 patients of group II, 36 patients were available at 2nd visit, and only 24 patients were available to be assessed at the 3rd visit. By comparing lab investigation and outcome scores at follow up visits, although no significant difference between the two study groups regarding lab investigations, DAS28 and HAQ scores at start of study, difference was reported in follow up visits that a significant decrease of these labs and scores were reported in Group I, while no difference reported in Group II.

Abstract AB0308 – Table 1. Lab and measuring scores comparison between GI and GII at 3rd Visit

<table>
<thead>
<tr>
<th></th>
<th>GI</th>
<th>GII</th>
<th>p value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N %</td>
<td>N %</td>
<td></td>
</tr>
<tr>
<td>ESR</td>
<td>Positive</td>
<td>20 40.0</td>
<td>23.0 95.8</td>
</tr>
<tr>
<td>CRP</td>
<td>Negative</td>
<td>30 60.0</td>
<td>1 4.2</td>
</tr>
<tr>
<td>R</td>
<td>Positive</td>
<td>19.0 38.0</td>
<td>19.0 79.2</td>
</tr>
<tr>
<td>Negative</td>
<td>31 62.0</td>
<td>5 20.8</td>
<td></td>
</tr>
<tr>
<td>RF</td>
<td>Positive</td>
<td>50.0 100.0</td>
<td>19 79.2</td>
</tr>
<tr>
<td>Negative</td>
<td>0 0.0</td>
<td>5 10.8</td>
<td></td>
</tr>
<tr>
<td>DAS28 Mean±SD</td>
<td>1.6±0.4</td>
<td>3.6±1.5</td>
<td>0.00</td>
</tr>
<tr>
<td>range</td>
<td>1.2: 2.3</td>
<td>1.3±1.5</td>
<td></td>
</tr>
<tr>
<td>HAQ Mean±SD</td>
<td>29.0±7.6</td>
<td>59.8±23.13</td>
<td>0.00</td>
</tr>
<tr>
<td>range</td>
<td>15.75-23.8</td>
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</tbody>
</table>

Conclusions: Patient education (PE) interventions in patients with RA documented significant improvements in behaviour, pain, disability of those patients.

REFERENCE:

Disclosure of Interest: None declared

AB0309

NEED TO A WALK TO THE COMPLETE REMISSION; FOOT AND OR ANKLE ARTHRITIS IMPede COMPLETE REMISSION IN RHEUMATOID ARTHRITIS –PART 1.

CROSS-SECTIONAL STUDY FROM KOREAN COLLEGE OF RHEUMATOLOGY BIOLOGICS (KOBIO) REGISTRY

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Objectives: To determine the prevalence of foot synovitis, and the most stringent disease activity index reflecting complete remission among patients with rheumatoid arthritis in Korea.

Methods: We conducted a cross-sectional study using data from the Korean College of Rheumatology BIOlogics (KOBIO) registry. Foot arthritis defined as having one or more tender or swollen joints in ankle and/or 1st to 5th metatarsal joints. Functional status and disease activity evaluated by the routine assessment of patient index data (RAPIDs), the disease activity score 28 (ESR) (DAS28), the simplified disease activity index (SDAI), the clinical disease activity index (CDAI), and the ACR/EULAR Boolean criteria.

Results: Baseline data of 2046 patients were analysed. Patients with foot arthritis showed significantly younger age at the diagnosis, longer disease, duration.
Using Treat-to-target Strategy by Determining Physical Disability and Glucocorticoid Reduction Strongly Influencing Functional Remission in Rheumatoid Arthritis

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Background: The initial target in the treatment of rheumatoid arthritis (RA) is to achieve clinical remission (CR) through Boolean definition and/or index-based criteria and sustain CR, and the final target is to maximise long-term health-related quality of life (HRQoL) through arthritis control, joint damage prevention, functionality normalisation and social participation.

Objectives: We aimed to determine the factors that inhibit the achievement of functional remission (Fcr) in terms of HRQoL.

Methods: A total of 227 patients with RA who had undergone first treatment between October 2014 and December 2017 and had not changed/added another disease-modifying anti-rheumatic drugs (DMARDs) for 12 weeks before the observation day were examined. We used daily-life function and social activity participation to evaluate HRQoL. We adopted the Health Assessment Questionnaire Disability Index (HAQDI) as daily-life functional assessment and EuroQoL 5 dimensions–5 levels (EQ5D) for health status with considerable potential assessment.

Results: The CR achievement rate at the last observational day by Boolean definition and Simple Disease Activity Index were 40.5% and 50.2%, respectively. The achievement ratio of HAQ-DI ≤0.5, EQ5D ≥0.867 and Fcr were 73.1%, 48.5%, and 46.7%, respectively. The differences in disease duration, stage, class and HAQDI at the time of the first interview; state of MTX, GCs and b/ts-DMARD use; and age at the last observational day for the achievement of Fcr were statistically significant. The odd ratios, as determined by multiple logistic regression analysis of the above-mentioned results, were 1.03 (95% CI 0.95–1.02, p=0.202) for disease duration (per 1 year), 1.576 (95% CI 1.257–1.977, p<0.001) for HAQDI at first interview (per 0.5), 0.615 (95% CI 0.277–1.365, p=0.232) and 4.943 (95% CI 1.683–14.524, p<0.01) for GA state (non-use vs temporal use and non-use vs continuous use, respectively), and 1.164 (95% CI 1.037–1.307, p=0.05) for age at last observational day.

Conclusions: HRQoL is important as they will influence future treatment strategy. Our results indicated the importance of functional assessment at first interview and demonstrated how to use Gcs for the treatment of RA. Ageing always contributes to patients’ frailty, and it is unavoidable to it. Achieve Fcr, functional assessment should be performed during the first interview and short-term use of Gc is useful for prompt functional recovery, in consideration of ageing.

REFERENCES:

Disclosure of Interest: None declared


Determinants of Non-Noicceptive Pain in Rheumatoid Arthritis

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Background: A neuropathic component (NP) of Rheumatoid Arthritis (RA) pain was described in nearly a third of the patients. Radiographic damage is a reflection of cumulative disease activity and other pathophysiological processes. Some clinical predictors of RA NP were recently identified by our group, but association and adjustment for radiographic damage were not studied.

Objectives: To estimate the clinical predictors of NP in RA patients adjusting for their radiographic damage.

Methods: Cross-sectional study was performed with RA patients followed at our Rheumatology department. Patients with diagnosed neuropathy or non-Ra risk factors for NP were excluded. Selected patients were evaluated in a medical visit. Demographic and clinical data were collected and two questionnaires were applied to assess NP: the Leeds Assessment of Neuropathic Symptoms (LANSS) and the painDETECT (PDQ). Wrists, hands and feet radiographic studies from the previous 12 months were classified according to the modified van der Heijde Sharp’s method by one trained reader, blinded for patient clinical variables and treatment allocation. Univariate and multivariate logistic regression were performed adjusting for global radiographic score (GS). Significance level was set as <0.05.

Results: Ninety one RA patients were included. Seventy (77%) were women, with a mean (SD) age of 55.6 (10.8) years and median disease duration of 12 years;23 84 patients were seropositive for Rheumatoid Factor and/or ACPA; 85 (93%) were treated with DMARDs and 41% with a biological DMARD (bDMARDs). The mean (SD) DAS28 4V CRP was 3.15 (0.77). The median joint erosion score was 28 (range: 3–143) and the median joint space narrowing (JN) was 46 (range: 10–133). Forty-two (46%) patients had LANS NP (>12) and 29% had a possible/likely NP in the PDG (>12). JN was a significant negative predictor of LANS NP (OR: 0.98, p=0.02). After adjusting for GS, gender was not associated with NP. Pain VAS, patient global activity and the tender joint count were positive predictors of NP of both tests. Swollen joint count, ESR or CRP levels were not significantly associated with NP. DAS28 CRP was a significant positive predictor of NP by both tests (OR 1.89 for LANS and OR: 2.06 for PDG, p<0.05); as well as the HAQ score (OR: 2.68 and OR: 4.85, respectively, p<0.05). Positivity for ACPA was a negative predictor of LANS NP (OR: 0.31, p=0.048), as previously described. Current methotrexate treatment had lower odds of LANS NP (OR: 0.35, p=0.04) but did not remained significant after adjustment for DAS28 CRP. Previous/current Hydroxychloroquine (HCQ) treatment was once more a negative predictor for PDG NP (OR: 0.11, p=0.04) and remained significant after adjustment for DAS28 CRP. Previous/current leflunomide (LFN) was newly a positive predictor of NP in both tests (OR: 3.41 for LANS and OR: 2.95 for PDG, p<0.05), persisting after disease activity adjustment for LANS NP. No other associations were found.

Conclusions: Consistently with our previous data, this study supports an association between NP and disease activity/functionality scores but not with objective inflammatory measures. Possible increased risk of NP in LFN treated patients was newly pointed and protective role of ACPA positivity and HCQ was reinforced.

REFERENCES:

Disclosure of Interest: T. Rocha Grant/research support from: Portuguese Society of Rheumatology/Alfa Wassermann on May 2015, S. Pimenta: None declared, M. Bernardes: None declared, A. Bernardo: None declared, M. Barbosa: None declared, R. Lucas: None declared, L. Costa: None declared


Inflammatory Activity Appears Well Controlled in Most Patients with Rheumatoid Arthritis (RA) in Contemporary RHEUMATOLOGY CARE, but Joint Damage and Distress Remain as Problems of Greater Magnitude Than Inflammation

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Background: Rheumatologists traditionally use quantitative measures such as swollen and tender joint counts and laboratory tests to assess inflammatory activity. However, structural damage to joints, as well patient distress seen as fibromyalgia, depression, etc., may be important clinical problems for many RA patients, but are described narratively in the medical record rather than estimated.