Results: Data from 23 patients were analysed during the 52 weeks observational period. Mean age was 54.7 years, 80% of the patients were female. Mean DAS28 and CRP values were 4.26, mean BSA 9%, whereas mean values for SJ were 5.9 and TJC 11.4 using 66/78 joint count. All patients were negative for ACPA and rheumatoid factor.

ROC analysis revealed that a DACT cut-off of 4.55 at baseline, indicating moderate expression of fluorescence intensities in context of disease activity, shows a predictive quality to LDA achievement at W52 with 80% specificity, 78% sensitivity and likelihood ratios of 3.89 (LR+) and 0.28 (LR-). The corresponding AUC value is 0.717. (95% CI: [0.693, 1]; p=0.146). Compared to clinical disease measurements such as baseline DAS28, TJC or SJC, the DACT at BL is more discriminative to identify patients who attain LDA at W52.

Conclusions: This interim analysis of the XPLORO study shows promising data for the use of FOI as possible imaging biomarker for disease activity measure and prediction of response in PsA patients newly treated with anti-TNF-therapy. Baseline values evaluated using the automated computer-based reading of the fluorescence intensities with a cut-off of 4.55 are predictive for later achievement of DAS28 low-disease activity or remission within the treatment course. Data will be verified in a larger cohort of the XPLORO study.

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ASSOCIATION OF RS12218 POLYMORPHISM IN SAA1 GENE WITH LUMBAR SPINE SYNDESMOPHYTES IN THE RUSSIAN ANKYLOSING SPONDYLITIS POPULATION. A PILOT STUDY

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Background: Ankylosing spondylitis (AS) is a chronic inflammatory disease from the group of spondyloarthritis (SpA). Earlier studies showed a correlation between SAA1 gene polymorphism, encoding serum amyloid A, and the development of secondary AA-amyloidosis in familial Mediterranean fever and rheumatoid arthritis in Caucasian and Asian populations. The Morishige et al (2005) study showed that the –13 T/C polymorphism in the gene 5′-flanking region (rs12218) is a better marker of AA-amyloidosis than mapping of polymorphisms in SAA1 exon 3 (SAA1.1 and SAA1 1.3). Data on rs12218 polymorphism contribution into predisposition to AS and its clinical phenotypes are very scarce. One of the clinical phenotypes, determining the severity of spine damage, is associated with presence of syndesmophytes (SM) in the lumbar (SMl), thoracic (SMt) and cervical (SMc) spine, confirmed by x-ray data.

Objectives: To study potential associations of rs12218 polymorphism in SAA1 gene with AS and phenotypes of radiographic progression, with the presence of SMl, SMt, and SMc, and correlation with BASDAI, BASFI and ASAS indices.

Methods: rs12218 polymorphism was studied in 112 subjects: 47 AS patients (37 males and 10 females, mean age 40y, mean disease duration 213 weeks, mean age at onset 22y, positive for HLA-B27), and 50 healthy volunteers (M/F=32/18) (35.40±10.62 years) were enrolled in the study. Clinical enthesopathy was defined by the presence of at least one of the spontaneous pain, tenderness elicited by pressure, mobilisation and retention against resistance of the corresponding tendons and local swelling of the enthesis. Pain by visual analogue scale (VAS), disease activity by Bath Ankylosing Spondylitis Disease Activity Index (BASDAI), enthesitis severity by SPARCC index was assessed in the patients. Isokinetic measurements of ankle dorsiflexion and plantar flexion were performed by the isokinetic dynamometer. The patients were tested at 30° and 120°/sec angular velocities. Pain, other symptoms (stiffness, swelling, range of motion), ADLs, sport and recreational activities, and foot and ankle-related QoL were evaluated by the Foot and Ankle Outcome Score (FAOS) in which higher scores indicate lesser problems and/or functional limitations.

Results: There was no significant difference between the patients and controls regarding age, sex, and body mass index. Clinical enthesopathy was detected in 36.7% of the SpA patients. Although ankle plantarflexion and dorsiflexion muscle strength in all angular velocities were lower in the SpA patients, the difference did not reach statistical significance (p>0.05). All of the FAOS subscales were found to be significantly lower in the patients with SpA than in the controls (p<0.001). When the SpA patients were divided into two groups as with clinical enthesopathy (n=22) and without clinical enthesopathy (n=38), there were significant differences between the groups regarding VAS pain, BASDAI, BASFI and SPARCC scores whereas there was no significant difference in muscle strength. Also, all FAOS subscale scores were significantly lower in the patients with clinical enthesopathy. Additionally, in the patients with SpA, while there were negative correlations between VAS pain, BASDAI, BASFI, SPARCC and FAOS subscale scores, there was a positive correlation between ankle muscle strength and FAOS scores (p<0.05).

Conclusions: We found that all the FAOS subscale scores were lower in the SpA patients and they were correlated with clinical findings. The results of our study indicate that even though there wasn’t a significant decrease in the muscle strength, ADLs, sport and recreational activities, foot-related QoL are poorly affected in the SpA patients with Achill enthesitis.

Disclosure of Interest: None declared


ASSSESSMENT OF EARLY MYOCARDIAL DYSFUNCTION USING SPECKLE TRACKING ECHOCARDIOGRAPHY IN PATIENTS WITH RADIOPHAGIC AND NONRADIOPHAGIC AXIAL SPONDYLOARTHRITIS

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Background: Axial spondyloarthritis (axSpA) is a chronic inflammatory disease that mainly affects axial skeleton. Although some differences like sex and objective signs of inflammation were described between these two subgroups, overall disease burden was found to be similar in radiographic (r) and non-radiographic (nr) axSpA patients. The association of chronic inflammation with cardiac dysfunction was well documented in many inflammatory rheumatic diseases. However, it was not assessed in the subgroup of nr-axSpA patients. Advanced two-dimensional (2D) speckle tracking echocardiographic analysis is more sensitive and accurate method of early detection of myocardial dysfunction than the conventional 2D transthoracic echocardiography (TTE).

Objectives: To evaluate the left ventricular function by using speckle tracking echocardiography in patients with both r- and nr-axSpA.

Methods: In total 64 patients with r-axSpA (70% male) and age- and sex-matched 27 patients with nr-axSpA (63% male) and 30 healthy control subjects