INVESTIGATION OF ALEXITHYMIA IN PATIENTS AFFECTED BY RHEUMATOID AND PSORIATIC ARTHRITIS: CROSS-SECTIONAL OBSERVATION

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Background: Rheumatoid arthritis (RA) and Psoriatic arthritis (PsA) are chronic inflammatory diseases that lead to an overthow of articular structure, functional limitation and disability. Alexithymia is a personality trait characterised by deficits in cognitive processing and regulation of emotions. A broad association between alexithymia and symptoms as depression, inflammation and pain has been demonstrated.

Methods: We prospectively enrolled, from January to December 2017, patients affected by RA diagnosed according to the ACR revised criteria and PsA diagnosed according to the CASPAR criteria referred to the out-patients clinic of the Rheumatology Unit of Policlinico Tor Vergata, Rome. The 20-item Toronto Alexithymia Scale (TAS-20) was used to assess alexithymia. Disease activity, function and quality of life, clinimetric tests as well as ESR and CRP were assessed. Statistical comparisons were performed using Pearson’s Coefficient of Skewness, the unpaired t-Test and Mann-Whitney test.

Results: A total of 50 RA patients and 51 PsA patients were enrolled (table 1). The TAS-20 score showed that 38.6% (39/101) of patients had alexithymia, 26.7% (27/101) patients were in the borderline of alexithymia and 34.7% (35/101) patients had not alexithymia. A statistical significant association was observed between alexithymia and clinimetric parameters (pVAS, pH, p=0.0001 for all comparisons). No correlations were observed between alexithymia and disease duration, gender, therapies with bDMARDs. A significant trend has been demonstrated between alexithymia and corticosteroidal therapy.

Conclusions: This study suggests that alexithymia assessment should be a part of the comprehensive care of patients with RA and PsA. We are in the process of extending this investigation on a larger sample population to improve our investigation field and to consolidate our dates.

Disclosure of Interest: None declared

AB0346

Abstract AB0346 – Figure 1

BODY COMPOSITION IN PATIENTS WITH RHEUMATOID ARTHRITIS KAZAKH NATIONALITY

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Background: Chronic inflammation in rheumatoid arthritis (RA) leads to a decrease in fat and muscle mass (Baker J.F., Von Feldt J. Mostoufi-Moab S. et al., 2014) Low muscle mass in RA is considered as the main criterion of sarcopenia. Recently, much attention has been paid to various phenotypes of sarcopenia, among which osteopenic sarcopenia, sarcopenic obesity and osteosarcopic obesity (most unfavourable in terms of functional disorders) are distinguished. In the modern literature there are works devoted to changes in the composition of the body in the aspect of abdominal obesity and its influence on cardiovascular risk in RA (Crowson C.S., Myasoedova E., Davis J.M., 2011). Studies with the evaluation of muscle mass and sarcopenia in RA are few. In Kazakhstan, the composition of the human body was not studied.

Objectives: The purpose of the study was to study the body composition (muscle and fat mass) of patients with RA of Kazakh nationality using bioelectrical impedance analysis.

Methods: In our study we used Bioimpedance analyzer 101 (BIA 101, Italy). Bioimpedansometry was performed in 585 participants, including 295 patients with RA and 290 of their siblings.

Results: In patients with RA, in contrast to the comparison group (sibs), BMI (probands – 25.3±4.5, siblings – 24.8±4.5), the girth of the waist and hips were slightly higher than those of the siblings. The ratio of RT/OB in both groups was virtually the same. At the same time, a decrease in the lean mass was found.
GRIP POWER AND INDEPENDENT DAILY LIVING IN THE PATIENTS WITH RHEUMATOID ARTHRITIS

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Background: Grip power is known to be a simple and useful objective index that can be used in the self-assessment of disease activity in patients with rheumatoid arthritis (RA)1. However, the clinical significance of this physical function is unknown.

Objectives: The objective of this study was to clarify the relationship between the grip power and the level of activities of daily living (ADL).

Methods: The grip power was measured in 221 inpatients of our hospital with RA using a mercury dynamometer. The independence level (0: impossible, 1: incom- plete and not practical, 2: practical but the means thereof are unusual, 3: normal) for 44 ADL items, including most daily activities was investigated. For each item, the site with the problem (shoulder, elbow, forearm, wrist, thumb, fingers, lower extremity and trunk) and cause of disability (pain, loss of power, decreased range of motion, abnormal prehensile pattern and fatigue) were investigated by inter-viewing the patient. There were 33 male and 186 female patients. The average age of the patients was 64.6 years, and the average duration of the disease was 13.3 years. Biological therapy had been given to 23% of the patients. The average grip power of the right and left hands was used.

Results: There were 14 items requiring others’ assistance (level 0 or 1) in more than 10% of patients. For these 14 items of ADL, the grip power increased with the increase in the independence level (p<0.001). The site with the problem was, in order of frequency, the fingers (26.1%), wrist (14.8%) and lower extremity (14.0%). The cause of disability was, in order of frequency, pain (38.3%), loss of power (32.8%) and a decreased range of motion (14.0%). Based on the results of a step-wise regression analysis, the first factor, consisting mainly of “reaching function”, including “hair dressing”, “washing one’s body”, “taking on and off one’s shoes”, “clipping nails”, “buttoning”, etc., was most strongly related to a loss of grip power and problems at the elbow, the shoulder and the wrist. The second factor, consisting mainly of the “prehensile function”, including “opening a plastic bottle”, “opening lids”, “squeezing towels”, etc., was most strongly related to a loss of grip power and problems at the wrist and the thumb. The third factor, consisting mainly of “activities involving changing body position and transfer”, including “getting in and out of the bathtub”, “standing and sitting”, etc., was most strongly related to ageing and problems with the lower extremities and at the elbow and the wrist. In the receiver operating characteristic (ROC) curve, the grip power with the maximum Youden index was 136.5 mmHg (11.8 kg) in females and 152.5 mmHg (13.5 kg) in males. Most activities were performed independently with the grip power more than 136.5 mmHg in females (figure 1). The explanatory variables for the grip power in the female patients were ageing; a long disease duration; a high disease activity score (DAS 28); problems at the fingers, the thumb and the elbow; decreased flexion at the shoulder and a decreased range of forearm rotation.

Conclusions: The grip power was a determinant of independent daily living in patients with RA in our study.

REFERENCES:

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OTO-RHINO-LARYNGOLOGICAL MANIFESTATIONS OF RHEUMATOID ARTHRITIS

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Background: Rheumatoid arthritis (RA) is a chronic inflammatory disorder that can damage a wide variety of body systems. Ear, nose and throat (ENT) involve- ment is frequent but not often reported. The purposes of our work are to determine the prevalence of ENT involvement during RA and to evaluate its correlation with RA disease activity.

Objectives: The purposes of our work are to determine the prevalence of ENT involvement during RA and to evaluate its correlation with RA disease activity.

Methods: This is a cross-sectional study of 90 consecutive RA, followed at the Rheumatology department of Monastir Teaching Hospital in Tunisia, during 06 months (November 2016 to April 2017) and 46 matched volunteers. ENT clinical examination with tonal audiometry and thyroid tests (TSH, T4, anti-Thyroperoxidase Ab (Anti TPO Ab) and Anti-Thyroglobulin Ab (Anti tIg) were performed.

Results: ENT involvement prevalence was 78%. The most frequent functional signs were intermittent dysphonia in 50% and dysphagia in 42% of cases. The neck examination revealed painful larynx mobilisation in 58% cases and cervical lymph nodes in 7% of cases. Indirect laryngoscopy, performed in the 67% of symptomatic patients, noted inflammatory mucosa in 38% of cases and decrease in vocal cord mobility in 8% of cases. Seventy percent patients had temporomandibular Joint (TMJ) involvement. Tonal audiometry revealed 42% of cases of deafness: 27% sensorineural deafness, 13% conductive deafness and 2% cases mixed hearing loss. The ENT manifestations significantly associated to RA compared to the witness group (p<0.01) were intermittent dysphonia, dysphagia, pain- ful larynx mobilisation, inflammatory nasal mucosa, painful TMJ and deafness. Active disease (DAS 28>3) is statistically associated with deafness (p=0.048) and TMJ involvement (p=0.009). Logistic regression study shows that RA duration over 10 years was associated to laryngeal dyspea (OR=4.4, p<0.012, IC (95%) [1.377, 14.134]) and deafness (OR=3.8, p<0.03, IC (95%) [1.142, 12.882]). In the other hand, RA moderate functional handicap is a protective factor (OR=0.123, p<0.016, IC (95%) [0.076, 0.772]) of ENT involvement and biotherapy use was associated to thyroid involvement (OR=7.8, p=0.017, IC (95%) [1.431, 43.175]).

Conclusions: ENT involvement is a very common, usually asymptomatic extra-articular manifestation during RA. It is, mainly, TMJ involvement, deafness and dysphonia. The main relevant determinants are RA disease activity and duration.

REFERENCES: