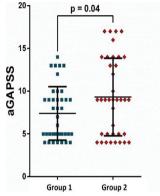
Methods: The analysis included 80 APS patients (≤50 years old) who presented a previous stroke event (patients who experienced cerebral venous sinus thrombosis were not included in the analysis). Clinical and laboratory data were retrospectively collected. Treatment was based on phisician's opinion according to clinical settings. The aGAPSS was calculated for each patient by adding the points corresponding to the risk factors, based on a linear transformation derived from the β regression coefficient as follows: 3 for hyperlipidaemia, 1 for arterial hypertension, 5 for aCL IgG/IgM, 4 for antiβ2glycoprotein I IgG/IgM and 4 for LA. Relapse was defined as the recurrence of thrombotic event and/or progression of known ischaemic lesions detected with MRI.

Results: Results pointed out that patients with relapse of thrombotic events and/or progression of known ischaemic lesions were 39 out of 80 (48.7%) and patients without relapse were 41 out of 80 (51.3%). Significantly higher aGAPSS values were observed in relapse group when compared to the non-relapse group [mean aGAPSS 9.08 (S.D. 4.7) Vs. mean aGAPSS 7.22 (S.D. 3.3); T test: p<0.05]. Distribution of aGAPPS values among the two groups is illustrated in Graph 1.



Graph 1.: Distribution of aGAPPS values among the two groups; Group 1: patients without relapse of thrombotic events and/or progression of known ischaemic lesions detected with MRI; Group 2: patients who presented relapse of thrombotic events and/or progression of

Conclusions: Our analysis suggests that aGAPSS could represent an effective tool to stratify the risk of relapse of thrombosis and/or progression of ischaemic lesions in young APS patients with clinical history of stroke. These data could also aid developing different therapeutic approaches, especially for patients at higher risk of relapse.

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AB1131 RISK OF DEVELOPING ATHEROSCLEROSIS IN PATIENTS WITH RHEUMATOID ARTHRITIS

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Background: Patients with chronic inflammatory diseases have an increased risk of developing atherosclerosis. Pro-inflammatory cytokines such as interleukin-(IL-)1beta and tumor necrosis factor-(TNF-)alpha, C-reactive protein (CRP) influence on the progression and development of both rheumatoid arthritis (RA) and atherosclerosis.

Methods: 620 patients with RA (diagnosis according to ACR /EULAR) from the rheumatology in-patient clinic with the mean age of 43.4±10; 95.4% ACCP positive patients, activity on DAS (Disease Activity Score) 28 II, III; 85.4% female with the disease duration for about 3-15 years were enrolled in the trial. We assessed the level of IL-1 with the use of ELISA.

Results: The constructed model surfaces indicated the interdependence of IL-1, the activity of DAS 28 and the level of LDH in RA patients. The correlative and regressive analysis of the results showed the statistically significant correlation of TG, LDG and markers of inflammation IL-1, DAS 28: p=0.627 (p<0.01), p=0.527 (p<0.01), p=0.712 (p<0.01), p=0.776 (p<0.01) accordingly. The correlation coefficient between hs-CPR and the indicators of the lipid profile revealed similar

Conclusions: According to the results of modeling, disease activity on DAS and markers of inflammation (IL-1 and hs-CRP) as a markers of the severity of

inflammatory process in RA patients are risk factors for developing atherosclerosis. The analysis of inflammation indicators in RA patients allows to assess the risk of developing and progressing atherosclerosis. The data enables to select the best possible personified therapy for such patients at the early stage of the disease. Disclosure of Interest: None declared

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AB1132 HIGHER RATES OF OBESITY AND ASSOCIATIONS WITH POORER CLINICAL STATUS IN PATIENTS WITH RA, OA AND SLE: A CROSS-SECTIONAL STUDY FROM ROUTINE CARE

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Background: Obesity is a risk factor for many chronic rheumatic diseases. In rheumatoid arthritis (RA), obesity is associated with increased comorbidities, higher medical costs, disease activity, and poorer physical function¹. In OA, obesity is a risk factor for both incidence and progression, and has a negative impact on outcomes². In systemic lupus erythematous (SLE), obesity is associated with more severe renal involvement, lower quality of life, and increased cardiovascular

Objectives: To assess associations of obesity with patient self-report multidimensional health assessment questionnaire (MDHAQ) scores and physician global assessments in patients with RA, OA and SLE seen in routine care.

Methods: All patients at one academic center complete a MDHAQ, which includes a 0-10 scale for physical function (FN), 0-10 visual analogue scales (VAS) for pain (PN) and patient global assessment (PATGL), compiled into a 0-30 RAPID3, as well as scales for fatigue, depression, and demographic data. Physicians complete a VAS for patient global (DOCGL). Body Mass Index (BMI) was calculated from the medical record as weight (kg)/ height (meters)2. Patients were classified by BMI as normal (18.5-25), overweight (25-30), or obese (>30) according to the WHO guidelines. Demographic and clinical MDHAQ data were compared in the 3 diagnostic groups according to BMI groups using ANOVA and chi-square tests

Results: 396 patients with RA, 425 with OA, and 306 with SLE were studied. Obesity was reported by 40% of RA and SLE patients, and 59% of OA patients, a higher percentage than matched individuals in the general population in the same region (30.8%). Obesity was higher in African-American patients (48% in RA, 70% in OA, and 53% in SLE). Education level, gender, and age did not differ significantly across the groups. Obesity was associated with poorer physical function, poorer patient global and higher pain in all 3 diagnostic groups, with higher depression scores in OA and SLE (Table). DOCGL was significantly higher only in OA (data not shown).

Table 1, MDHAQ scores and physician global assessment according to BMI groups

MDHAQ scores	Normal (BMI=18.5-25)	Overweight (BMI=25-30)	Obesity (BMI>30)
RA (N=381)	110 (29%)	112 (30%)	154 (40%)
Function (0-10)	2.1 (2.2)	2.4 (2.2)	2.9 (2.0)*
Pain (0-10)	4.4 (2.8)	4.6 (3.0)	5.1 (3.1)*
Fatigue (0-10)	3.4 (2.9)	3.6 (3.1)	4.5 (3.2)*
PATGL (0-10)	3.8 (2.7)	4.1 (3.1)	4.8 (2.8)*
Depression (0-3.3)	0.5 (0.7)	0.5 (0.7)	0.6 (0.8)
OA (N=420)	60 (14%)	102 (24%)	247 (59%)
Function (0-10)	1.7 (1.5)	2.6 (1.8)	3.2 (2.0)*
Pain (0-10)	5.1 (2.9)	6.7 (2.5)	6.6 (2.6)*
Fatigue (0-10)	3.4 (2.9)	4.3 (2.9)	5.3 (3.1)*
PATGL (0-10)	4.5 (3.1)	5.7 (2.5)	5.9 (2.7)*
Depression (0-3.3)	0.4 (0.6)	0.6 (0.8)	0.7 (0.8)*
SLE (N=299)	84 (28%)	85 (28%)	121 (40%)
Function (0-10)	1.4 (1.5)	1.2 (1.6)	2.3 (2.1)*
Pain (0-10)	3.5 (3.2)	3.9 (3.1)	5.2 (3.3)*
Fatigue (0-10)	4.2 (3.3)	4.2 (3.4)	5.1 (3.2)
PATGL (0-10)	3.6 (2.9)	3.9 (3.1)	4.6 (3.2)*
Depression (0-3.3)	0.4 (0.6)	0.4 (0.6)	0.7 (0.8)*

^{*}p<0.01.

Conclusions: Obesity is more prevalent in patients with rheumatic diseases compared with the general population. Obese patients had poorer status on most MDHAQ scores, particularly physical function and pain. Obesity is an important comorbidity in patients with rheumatic diseases.

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