in past history were registered in 5/9 (55%) APS patients and 2/11 (18%) BD patients and none of HC. Fetal loss occurred only in women with APS (4/4 (100%) who had pregnancy during the disease). All the patients were hospitalized and underwent full investigation according to the diagnosis including TD, local coagulation tests and antiphospholipid antibodies profile.

Results: the velocity of clot growth in APS was lower, than in BD and in HC: 23.7 [22.6; 24.7] vs 29.0 [28.2; 34.4] and 31.1 [28.9; 33.5] U/min, respectively ($p=0.001$). Clot size at 30 minutes in APS also was lower, than in BD and HC: 972.1 [921.3; 1007.4] vs 1152.7 [1098.3; 1225.4] and 1226.6 [1140.5; 1295.1] U, respectively ($p=0.001$). Spontaneous clotting was registered only in 2 BD patients in mean time 2 minutes. Clot density and lag time (Tlag, the delay between the test start and the onset of clot formation) were the same in all three groups. Prolonged APTT was found in APS (33.7 [30.6; 47.1] sec) and normal APTT - in BD (30.9 [29.1; 31.1] sec) and HC (29.7 [28.2; 30.8] sec). Increased soluble fibrin-monomer complexes were revealed in all APS patients (100%), 91% BD patients and 25% HC ($p=0.01$). After interpretation the TD results were distributed as follows: hypocoagulation was noted in 1 APS patient with a positive lupus anticoagulant, while all other APS patients had normocoagulation. Thrombotic readiness status (TRS) was diagnosed only in 2 BD patients. The frequency of normocoagulation and hypercoagulation did not differ between BD and HC. Local coagulation tests (APTT, thrombin time, prothrombin time) were the same depending on hypo- and hypercoagulation by TD results. Fibrinogen level in BD patients with hypercoagulation was higher, than in BD patients with normocoagulation and TRS: 4.2 [3.6; 4.7] vs 2.8 [2.7; 3.0] and 2.8 [2.7; 2.8] g/l respectively, $p=0.04$. BD activity by Behcet's Disease Current Activity Form correlated with stationary velocity of clot growth ($R_s = 0.68$, $p<0.05$).

Conclusion: Thrombodynamics results showed: before anticoagulant therapy there were normocoagulation with a tendency to hypocoagulation in APS and hypercoagulation in BD. In BD hypercoagulation associated with disease activity.

Disclosure of Interests: None declared

DOI: 10.1136/annrheumdis-2021-eular.1319

AB0306 OBESITY PHENOTYPES IN SYSTEMIC LUPUS ERYTHEMATOSUS PATIENTS

L. Kondrateva¹, T. Panafidina¹, T. Popkova¹, M. Cherkasova², A. Lila³, E. Nasonov³. ¹V.A.Nasonova Research Institute of Rheumatology, Department of Systemic Rheumatic Diseases, Moscow, Russian Federation; ²V.A.Nasonova Research Institute of Rheumatology, Immunology and Molecular Biology of Rheumatic Diseases, Moscow, Russian Federation; ³V.A.Nasonova Research Institute of Rheumatology, Scientific Department, Moscow, Russian Federation

Background: The so-called "obesity paradox" when cardiovascular risk is lower in overweight compared to lean patients accompanies some chronic conditions. A possible explanation for this phenomenon comes from variability of obesity phenotypes, i.e., "classical" obesity as exemplary perception of obesity is equal to increased body mass index (BMI) and metabolic disorders; but there are also "metabolically healthy" overweight individuals (increased BMI without metabolic disorders), and "latent" obesity phenomenon (when normal weight is associated with metabolic disorders, especially with insulin resistance (IR) and adipocytokines imbalance). Serum leptin concentrations increase has been established in obese, therefore, this adipocytokine synthesized in adipose tissue, can be used as a marker of body fat mass. Higher cardiovascular risks are known even in young patients with systemic lupus erythematosus (SLE), but obesity phenotypes have not been studied.

Objectives: To find out the rate of various obesity phenotypes and to identify factors contributing to "latent" obesity in SLE pts without diabetes mellitus (DM) or hyperglycemia.

Methods: A total of 49 SLE pts (46 women, 3 men, 40 [33;48] years old) without established DM or hyperglycemia were enrolled in the study. The median disease duration was 3,0[0,7;8,0] years, SLEDAI-2K was 5[2;8]. SLE pts were treated with glucocorticoids (GC) (84%) and hydroxychloroquine (78%), immunosuppressive drugs (20%) and biological agents (10%). Insulin levels were measured using electrochemiluminescence assay Elecsys (Roche Diagnostics), serum leptin concentrations were estimated using ELISA (DBS-Diagnostics Biochem Canada Inc.). IR was defined as Homeostasis Model Assessment of Insulin Resistance index (HOMA-IR) ≥ 2.77 . Leptin levels were considered elevated at values $\geq 11,1$ ng/ml for women, $\geq 5,6$ ng/ml for men. The overweight / obesity status was determined by World Health Organization criteria in patients with body mass index (BMI) ≥ 25 kg/m².

Results: Overweight / obesity were established in 45% of pts, normal BMI was in 55% of SLE pts. The combination of IR and high leptin levels was found in 32% of overweight / obese pts and 11% of pts with normal BMI ($p=0,2$), an isolated increased leptin levels - in 64% and 41%, respectively ($p=0,1$). Metabolic disturbances were absent in 4% of overweight pts and 48% of pts with a normal BMI ($p=0,001$). Thus, "classical" obesity was found in 43% of cases,

"metabolically healthy" obesity - in 2%, and "latent" obesity - in 29% of SLE pts. Leptin levels correlated with BMI ($r=0,5$, $p=0,02$), waist circumference ($r=0,5$, $p=0,02$) in the overweight / obesity group, and with disease duration ($r=0,5$, $p=0,02$), SLEDAI-2K ($r=-0,6$, $p=0,002$), anti-dsDNA ($r=-0,7$, $p<0,001$), C3 complement ($r=0,5$, $p=0,01$), maximum ($r=0,7$, $p<0,001$) and current GCs doses ($r=0,4$, $p=0,03$) in patients with normal weight. There was a trend to association between leptin levels and duration of GCs therapy in SLE pts with normal BMI ($r=0,4$, $p=0,06$).

Conclusion: Metabolic disorders - most often increased leptin levels - were diagnosed in the majority of overweight / obese patients, as well as in about 50% of SLE patients with normal weight. There were only isolated cases of "metabolically healthy" obesity in SLE patients. Metabolically obese normal weight ("latent" obesity) phenotype was strongly associated with GCs therapy and decreased disease activity.

Disclosure of Interests: None declared

DOI: 10.1136/annrheumdis-2021-eular.1356

AB0307 IS THERE ANY INFLUENCE OF THE ANTIRHEUMATIC THERAPY ON ECHOCARDIOGRAPHIC FINDINGS IN PATIENTS WITH SYSTEMIC LUPUS ERYTHEMATOSUS?

T. Panafidina¹, T. Popkova¹, L. Kondrateva¹, A. Volkov², E. Nasonov³, A. Lila³.

¹V.A.Nasonova Research Institute of Rheumatology, Department of Systemic Rheumatic Diseases, Moscow, Russian Federation; ²V.A.Nasonova Research Institute of Rheumatology, Department of Instrumental Diagnostics, Moscow, Russian Federation; ³V.A.Nasonova Research Institute of Rheumatology, Scientific Department, Moscow, Russian Federation

Background: Cardiovascular diseases are becoming the leading cause of death among SLE patients due to increasing life-spans. Transthoracic echocardiography (TTE) is a routine and widely available modality in everyday clinical practice useful to identify specific pathological cardiac changes and predictors of heart failure.

Objectives: The goal was to identify potential abnormalities in the TTE findings in SLE patients, with and without antirheumatic therapy.

Methods: This is a prospective cross-sectional study including 91pts (91% females, aged 32[28-41]years (median [interquartile range 25%-75%]) with SLE (SLICC 2012 criteria). All patients were divided into 2 groups: the 1st group was composed of "untreated" patients and the 2nd - of patients receiving antirheumatic therapy. The 1st group included 43pts (93% females) aged 31[27-40]years who were not receiving steroids, immunosuppressants and biological agents at the time of enrollment, 5(12%) of them were on hydroxychloroquine (HCQ) therapy 200mg/day. The 2nd group is represented by 48pts (89% females) with median age 34[28-45]years. Out of them 47(98%) patients were on prednisone therapy at 10[8-15]mg/day, 10(21%) - on cyclophosphamide, 6(13%) - azathioprine, 4(8%) - mycophenolate mofetil, 4(8%) - methotrexate, 37(71%) - HCQ, and 9(19%) - on biologic (rituximab, belimumab). Both groups were matched by age and gender. Patients receiving antirheumatic therapy (group 2) had longer disease duration (96 vs 18 months, $p<0,00001$), lower disease activity (SLEDAI-2K 4 vs 11 scores, $p<0,001$), higher SLICC/DI (1 vs 0 score, $p<0,001$); lower percentage of them had skin lesions (11 vs 57%, $p<0,0001$), arthritis (22 vs 52%, $p<0,05$) and hematological disorders (24 vs 74%, $p<0,0001$) than "untreated" patients from the 1st group.

Results: Valve insufficiency with varying degree of clinically insignificant regurgitation and pericarditis were the commonest pathology found in "untreated" and "treated" SLE patients based on TTE data. No differences in rates of valve insufficiency (95% and 83%), pericarditis (43% and 47%) (both exudative and adhesive), endocarditis (26% and 33%), median left ventricular (LV) ejection fraction (64[59-68]% and 64[61-69]%), LV end-systolic dimension (30[27-32]mm and 29[25-31]mm), LV end-diastolic dimension (48[45-50]mm and 45[42-49]mm), pulmonary artery systolic pressure (25[22-31]mm Hg and 23[22-30]mm Hg), LV diastolic dysfunction (26% and 21%) and LV systolic dysfunction (9% and 6%), LV myocardial hypertrophy (14% and 21%) and left atrium dilatation (9% and 21%) were found between the "untreated" SLE patients and patients receiving antirheumatic therapy ($p>0,05$ for all cases). Higher rates of mitral and tricuspid valves prolapse was seen more often in "treatment-naïv" SLE patients: 16(47%) vs 10(21%), $p<0,01$.

Conclusion: Valvular dysfunction (insufficiency with clinically insignificant regurgitation), pericarditis, endocarditis and LVDD were the most common cardiac TTE abnormalities in SLE patients. Antirheumatic therapy seems not to worsen structural and functional cardiac abnormalities based on TTE findings in SLE patients. Only mitral and tricuspid valves prolapse was seen more often in "treatment-naïv" SLE patients.

Disclosure of Interests: None declared

DOI: 10.1136/annrheumdis-2021-eular.1360