investigated risk factors of depression in SLE patients, and the results are inconsistent. This study evaluated the prevalence of, and risk factors for, depression in ethnically homogeneous Korean SLE patients.

Methods: In this study, 505 consecutive SLE patients were enrolled from the Korean Lupus Network registry. Demographic variables, clinical manifestations, laboratory findings, physician global assessment, and SLEDAI-2000 and SLICC damage index were recorded at enrollment. Patients were identified as having depressive symptoms using the Korean version of the Beck Depression Inventory (BDI) with a cut-off ≥ 16 , and categorised into four groups. Multivariable logistic regression analyses were performed to identify independent risk factors for depression defined as a BDI score ≥ 16 .

Results: Of the 505 patients, 97 (19.2%) were diagnosed with depression. Patients with a higher BDI score were older, more likely to be a current smoker, and had a SLICC score >1 . Conversely, they had lower income and educational levels. Regarding the serologic findings, patients with a higher BDI score had lower anti-double-stranded DNA positivity and higher antinuclear antibody (ANA) positivity. On multivariate analysis, the following factors were associated with depression: current smoking status (OR 2.533, $p=0.049$), aCL-positivity (OR 2.009, $p=0.035$), and a SLICC damage index score >1 (OR 2.781, $p=0.039$). On the other hand, high-level education (OR 0.253, $p=0.024$) and a high income (OR 0.228, $p=0.008$) were negatively associated with depression.

Conclusions: Our results show that depression is prevalent in patients with SLE and multiple factors are associated with depression in SLE. These data could help guide target programs for those at high risk of depression in SLE.

Disclosure of Interest: None declared

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THU0364 RELATIONSHIP BETWEEN DISEASE ACTIVITY INDEX SCORES AND PHYSICIAN GLOBAL ASSESSMENT IN EARLY AND NON-EARLY SYSTEMIC LUPUS ERYTHEMATOSUS

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Objectives: To evaluate the disease activity and to compare it to physician's global assessment in patients with early (early SLE) and non-early systemic lupus erythematosus

Methods: Performed case-control study included SLE patients that fulfilled SLICC classification criteria, 2012. The research included two groups: patients with early SLE – first group (disease duration less than 24 months) and non-early SLE – second group (disease duration more than 24 months). The disease activity was assessed by SLEDAI-2K and SLAM. Physician global assessment (PhGA) was rated by 0–100 numeric score. We correlated disease activity indices with physician global assessment by Pearson coefficient.

Results: A total of 96 SLE patients were analysed. First group included 45 patients with female:male ratio 14:1. The second group included 51 patients, female:male ratio 1:49. The disease activity indices: SLEDAI and SLAM denoted high disease activity level in both groups. PhGA didn't correlate with SLEDAI ($r=0.28$, $p>0.05$) in the first group, while a statistically significant correlation was determined with SLAM index ($r=0.39$, $p=0.007$). In the second group we found a moderate statistical significant correlation of PhGA with SLAM ($r=0.53$, $p=0.0001$) and weak, but also statistical significant relationship with SLEDAI ($r=0.35$, $p=0.01$). There is a better correlation of PhGA assessment and SLAM in both study groups, which can be explained by the presence of subjective components in appreciation of this index. Patient's better appreciation of their condition in the group with longer disease duration (statistical significant correlation of PhGA and both indices: SLAM and SLEDAI), probably, is because this patients know better to appreciate their disease, and patients with early SLE tend to underestimate their general condition.

Parameters of the disease	Gr I, Nr 45	Gr II, Nr 51
Age at study entry $\pm$ SD (range), years	41.18 $\pm$ 14.0 (20–75)	43.51 $\pm$ 12.3 (22–67)
Disease duration $\pm$ SD (range), month	10.14 $\pm$ 9.10 (0.1–24)	159.71 $\pm$ 94.53 (31–432)
SLAM $\pm$ SD (range), points	9.31 $\pm$ 4.87 ⁻²⁴	8.08 $\pm$ 4.38 ⁻²²
SLEDAI $\pm$ SD (range), points	11.13 $\pm$ 7.58 ⁻³⁴	7.33 $\pm$ 5.54 (0–23)
PhGA $\pm$ SD (range), points	44.02 $\pm$ 18.75 ⁻¹⁰⁻⁸⁰	47.73 $\pm$ 22.63 ⁻⁵⁻⁸²

Conclusions: In patients with early SLE PhGA correlated with SLAM, while in patients with non-early lupus PhGA correlated with both indices - SLAM and SLEDAI-2K. A better correlation of PhGA with SLAM can be explained by the presence of multiple components in this tool and also subjective data as fatigue or cognitive dysfunction.

Disclosure of Interest: None declared

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THU0365 POTENTIAL PREDICTIVE FACTORS INFLUENCING ESSDAI OF PRIMARY SJÖGREN'S SYNDROME PATIENTS

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Background: The useful tool to assessing disease activity in primary Sjögren's syndrome (pSS) is an EULAR Sjögren's syndrome disease activity index (ESSDAI).

Objectives: The aim of this study was indication of laboratory and clinical factors affecting the ESSDAI in pSS patients.

Methods: 75 pSS patients were included; 65 (87%) female, 10 (13%) men; mean age 50 years SD ± 15 . The tests included: basic laboratory tests, rheumatoid factor (RF), erythrocyte sedimentation rate, CRP, gammaglobulins serum concentration, C4 and C3 component of complement, antinuclear antibodies (ANA) - IF test HEp-2000, anti-SS-A and anti-SS-B antibodies evaluation with semi-quantitative immunoblotting, standard ELISA assays for serum cytokines levels (BAFF, APRIL, FLT-3L, TNF- β , IL-21) and β 2-microglobulin. Biopsy of minor salivary gland with the histopathological evaluation (focus score-FS) and the immunocytochemistry was also performed with the CD3+, CD4+, CD19+, CD21+, CD35+ cells presence assessment. The Schirmer's test and ocular staining score (OSS) were performed. The Bioethics Committee approval was obtained. Statistics: U Mann-Whitney (continuous variables) tests, Spearman correlation coefficient (correlations between quantitative variables) with statistical significance set at $p<0.05$.

Results: ESSDAI depends on FS, the presence of CD4+, CD3+ cells in the minor salivary glands infiltrates, RF and cryoglobulins ($p<0.05$). The division of pSS subjects into two subgroups (ESSDAI >5 ; <5) revealed, that the autoantibodies as anti-SS-A and anti-SS-B, influence the severity of the disease ($p=0.046$; $p=0.015$ respectively). ESSDAI positively correlated with OSS, but not with the Schirmer's test, other tested cytokines, ESR, CRP and gammaglobulins concentration - yet interestingly ESSDAI correlates negatively with IgG4 ($\rho=-0.435$).

Conclusions: The results confirm, that organ-related complications are influenced by inflammatory activity. This activity is expressed by mononuclear cell infiltrates (FS), which consist primarily of T-lymphocytes (indicators of active and early stage inflammation). However, contrary to other observations, no correlation between ESSDAI and cytokines or β 2-microglobulin was found. The correlation of ESSDAI with the presence of pSS marker autoantibodies (anti-SS-A, anti-SS-B antibodies), as well as with non-specific ones (RF or cryoglobulins), indicates the immunological disease activity and overactivity of B lymphocytes as suspected. The reduction of IgG4 concentration in pSS patients correlating with higher ESSDAI can be associated with breaking the autotolerance and lack of stimulation of IgG4 production. But the role and importance of IgG4 in immunological processes both as an activator of dependent autoimmune diseases and, on the other hand, the marker of induction of immune tolerance requires further research.

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THU0366 STUDY OF THE ROLE OF MICRO-RNA 20A EXPRESSION IN SYSTEMIC LUPUS ERYTHEMATOSUS IN AN EGYPTIAN COHORT

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Background: Micro-RNAs are small noncoding RNAs that act as cytoplasmic post-transcriptional gene expression regulators by targeting their complementary messenger RNA. They regulate several inflammatory, immunologic and oncogenic pathways. MicroRNAs are differentially expressed in patients with systemic lupus erythematosus (SLE), especially in association with lupus nephritis. The positive miRNA list in SLE patients in different studies presents relatively