States of America; patients 1-3. It combines disease activity, damage, comorbidities and health-re-

Background:

DOI:

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THU0286 THE SYSTEMIC LUPUS INTERNATIONAL COLLABORATING CLINICS (SLICC) FRAILTY INDEX (SLICC-FI) PREDICTS DAMAGE ACCRUAL IN SYSTEMIC LUPUS ERYTHEMATOSUS (SLE) PATIENTS. DATA FROM A MULTICULTURAL DIVERSITY, PARTNERSHIPS. Arthritis Rheumatol. 2019; 71: 1297-107

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Background: The Systemic Lupus International Collaborating Clinics (SLICC) Futility Index (SLICC-FI) has been developed as a predictor of outcomes in SLE patients. It combines disease activity, damage, comorbidities and health-related quality of life measures. Objectives: To evaluate the SLICC-FI as a predictor of damage accrual in systemic lupus erythematosus (SLE) patients.

Methods: Patients from a multi-ethnic, multi-center US lupus cohort were included. Damage was ascertained with the SLICC/ACR damage index (SDI) at last visit. The first visit in which the SLICC-FI could be derived was considered as the baseline visit. Unvariable and multivariable Poisson regression models were performed to determine the association between the baseline SLICC-FI and last SDI, adjusted for sex, age at diagnosis, ethnicity, insurance, prednisone daily dose, antimalarial and immunosuppressive drug use at baseline. Age and gender were included as a priori in the multivariable model, the other variables were included if they had a p<0.10 in the unvariable models.

Results: Of the 503 patients included, 454 (90.3%) were female with mean (SD) age 37.1 (12.5) years at diagnosis; 174 (34.6%) were African-American, 144 (28.6%) were Caucasians, 86 (17.1%) were Hispanics (Texas), and 99 (19.7%) were Hispanics (Puerto Rico). The mean (SD) baseline SLICC-FI was 0.26 (0.06). The final mean (SD) SDI score was 1.9 (2.2). Higher SLICC-FI scores at baseline predicted greater damage accrual in the unvariable analysis [Estimate=0.058, SE=0.048; p<0.0001]. The SLICC-FI remained associated with damage accrual in the multivariable model, after adjustment for possible confounders [Estimate=3.561 (SE=0.538); p<0.0001].

Conclusion: The SLICC-FI predicts damage accrual in SLE patients from a multi-ethnic cohort, supporting the importance of this index in the evaluation of SLE patients, combining several aspects of the disease.

References:


THU0287 EVALUATION OF PREDICTIVE FACTORS OF WORSE SCLERODERMIA IN LUPUS ERYTHEMATOSUS: FOCUS ON NEW PATHOGENIC PATHWAYS

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Background: cytokine dysregulation plays an important role in the pathogenesis of Lupus Nephritis (LN) representing an attractive field of research aiming to find new pathways for new targeted therapies. IL-17, IL-23 axis seems to have a great influence in the development of LN.

Objectives: to evaluate the strongest prognostic factors in a cohort of patient with LN focusing on of the impact of IL-17, IL-23 axis as new pathogenetic pathway on renal outcome.

Methods: 91 patients with active LN at disease onset or disease flare were enrolled at our hospital, immunological and disease activity data were collected at the baseline and at 6(TE), 12(T12), 24(T24) months and at the last follow-up (FU). 84 renal biopsies were evaluated according to ISN/RPS classification, assessing the activity and chronicity indexes and the active interstitial infiltrate using the BANFF score system. Baseline serum levels of IL-17 and IL-23 were assessed by ELISA in 37 patients.

Results: among the 84 renal biopsies evaluated 77% belonged to class III and IV according to ISN/RPS. 41.8% of patients had an active interstitial infiltrate≤5%, 35.2% between 5% and 25%, and 15.4% above 25%. Regarding immunological data 35.2% of patients revealed a seroconversion for antiphospholipid antibodies(APL+). The median serum level of IL-17 and IL-23 were 0.12±0.15 pg/ml and 27.7±9.12 pg/ml respectively. Using the ROC curves analysis we found a cut off value of 25.89 pg/ml for IL-23 for remission at T6. Among the 10 patients with a IL-23 level above this cut-off none achieved remission at T6 and the univariate analysis shows that a serum level of IL-23 above the defined cut-off was associated with an active interstitial infiltrate≥5% at renal biopsy and with the development of persistent proteinuria. The analysis of IL-17 could not let us to find a cut off value for renal damage progression since a too much high number of patients had a null value. Nevertheless patients with more elevated serum levels of IL-17 at the baseline showed more elevated level of interstitial infiltrate at renal biopsy and a worse renal outcome overall. Finally we conducted an univariate and multivariate analysis of the impact of IL-17, IL-23 axis as new pathogenetic pathway in the development of LN. The analysis of IL-23 showed a significant correlation with IL-23 and a trend to be associated with chronic renal damage and persistent renal activity. Conclusion: interstitial inflammatory infiltrate and APL+ represent in our study the strongest predictors of worse renal outcome. An higher serum level of IL-23 was found to be a negative prognostic factor pointed out the possibility to consider the IL-17-IL-23 axis as a biomarkers of a more aggressive renal disease.

Disclosure of Interests: None declared

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THU0288 CANCER RISK IN PATIENTS WITH CUTANEOUS LUPUS ERYTHEMATOSUS AND SYSTEMIC LUPUS ERYTHEMATOSUS COMARED TO THE GENERAL POPULATION: A DANISH NATIONWIDE COHORT STUDY

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Background: Research suggesting an elevated risk of cancer among patients with Systemic Lupus Erythematosus (SLE) has increased in recent years. Yet, the size of the overall cancer risk and the risk of respective cancer sites varies. Research examining the cancer risk of Cutaneous Lupus Erythematosus (CLE) patients remains limited. Therefore, in order to further guide and monitor patients with SLE and CLE, additional research estimating the risk of cancer is needed.

Disclosure of Interests: None declared

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