Conclusions: In all CTD, the capillaries in SSC patients are most severely damaged. The disease of capillaries in CTD patients correlates with PAH, ILD and cardiovascular complications. So, NVC could be a predictive detection method for PAH and cardiopulmonary disease in CTD patients.

Disclosure of Interest: None declared


AB0558

ARE REGULATORY T CELL LEVELS DIFFERENT IN ACTIVE AND INACTIVE SLE PATIENTS?

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Background: The subgroups of T helper cells and regulatory T cells (T-reg) are involved in the pathogenesis of systemic lupus erythematosus (SLE). T-reg cells suppress immune response to autoantigens and prevent autoimmune diseases (AID). Although there are studies suggesting that Treg cells are reduced during the active period of SLE, there are also studies claiming reversal.

Objectives: To determine whether there is a difference between T-reg and Th-17 cell levels in active and inactive SLE patients and to demonstrate the effects of these cells on disease course.

Methods: 21 SLE patients without active infection were included. Erythrocyte sedimentation rate, CRP, C3, C4, anti-ds-DNA levels, SLEDAI values were recorded in terms of organ and system involvement, hemostasis results, disease activation. SLEDAI >6 were considered active disease. Concurrent peripheral blood Th17 and T-reg levels were studied. 15 healthy control subjects were included as the study.

Results: 19 of the patients were women, the mean age was 37.3±12.9 years and mean duration of the disease was 7.9±1.29 years. Hematologic involvement was present in 15 (71.4%) of the patients, renal involvement in 17 (81%) and joint involvement in 7 (42.9%). Both Treg cells and CD4+IL17+cell levels were significantly higher in SLE group than HC group in terms of CD4+CD25+, CD4+FOXP3+T reg, CD4+CD25+FOXP3+T reg (p<0.011, p<0.001, p<0.001 and p<0.040, respectively). There was no significant difference between active (n=12) and inactive (n=9) SLE patients in terms of Th17 and T-reg levels. However, in the inactive period, the levels of CD4+FOXP3+T reg and CD4+CD25+FOXP3+Treg cells tended to increase compared to the active period.

Conclusions: This study showed the tendency of increasing in Treg cells in the inactive period. This may be related to the modification of immunosuppressive drugs. It may be more appropriate to perform similar studies before and after treatment.

Disclosure of Interest: None declared


AB0557

HAEMATOLOGICAL INVOLVEMENT (CYTOPENIA) AT THE TIME OF THE DIAGNOSIS IS ASSOCIATED WITH LESS SEVERE OCULAR INVOLVEMENT IN PATIENTS WITH PRIMARY SJOGREN SYNDROME


Background: In patients with primary Sjögren Syndrome (pSS), haematological involvement – autoimmune cytopenia, might be present at the time of the diagnosis or can develop in time after the characteristic glandular involvement. (1,2)

Objectives: The objective of the study is to evaluate the correlation between glandular involvement (ocular) and presence of cytopenia in patients diagnosed with pSS.

Methods: A retrospective analysis was performed on a cohort of patients diagnosed with primary Sjögren Syndrome under surveillance in one Rheumatology Centre between 2009 and 2016. The documented cases have been diagnosed according to the 2002 American-European Consensus group classification criterion, the 2012 ACR criteria or 2016 ACR/EULAR Classification Criteria for pSS. The EULAR Sjögren’s Syndrome Disease Activity Index (ESSDAI) was calculated for all patients. Ocular assessment and follow-up were performed in collaboration with the same ophthalmologist. The data was analysed using Windows Excel/SPSS20.0.

Results: 30 female patients diagnosed with pSS were included in the study. The mean age at the time of diagnosis was 52.1 years±SD 9.1. The ESSDAI was calculated for all patients at baseline: 5 (17%) patients presented high disease activity (ESSDAI >14), 14 (46%) patients moderate disease activity (5£ESSDAI£13) and 11 (37%) patients low disease activity (ESSDAI <5). The domain weight for glandular involvement when calculating ESSDAI is fairly low (2), so in the studied group there wasn’t obtained a statistically significant correlation between ocular involvement and disease activity as evaluated by ESSDAI.

In the clinical case series, Spearman’s rank correlation coefficient between haematological (autoimmune cytopenia), and biological markers (hypocomplementemia) and ocular involvement were calculated. A strong negative correlation was found between autoimmune cytopenia and glandular manifestations (ocular involvement-xerophthalmia) (r=-0.60; p<0.05). Another strong negative correlation was obtained between hypocomplementemia and severe ocular involvement (corneal ulceration) (r=-0.59, p=0.05, respectively).

Conclusions: Patients diagnosed with primary Sjögren Syndrome that presented at disease’s onset cytopenia and hypocomplementemia had a less severe ocular involvement.

REFERENCES:

Disclosure of Interest: None declared


AB0559

THE PREVALENCE OF NON-CRITERIA ANTIPHOSPHOLIPID ANTIBODIES IN ANTI-PHOSPHOLIPID SYNDROME

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Background: Antiphospholipid syndrome (APS) is an autoimmune disease characterised mainly by arterial and/or venous thrombosis, recurrent pregnancy morbidity, with the presence of a variety of heterogeneous circulating antiphospholipid antibodies. However, there are a group of APS patients with persistently negative antiphospholipid antibodies. It is necessary to validate new specific antibodies to better recognition of these recognition of these patients.

Objectives: To explore the clinical significance of non-criteria antiphospholipid antibodies in a large cohort of Chinese patients with anti-phospholipid syndrome (APS).

Methods: Serum samples were obtained from 214 APS patients, 122 disease control including systemic lupus erythematosus, sjogren syndrome, ankylosing spondylitis, rheumatoid arthritis, osteoarthritis and 50 healthy control. Antiphospholipid antibodies were detected using an automated chemiluminescent microparticle immunoassay system (Beckman Coulter, USA). The Chi-square (2) test was used to examine the difference of frequencies of antibodies in APS patients and patients with other diseases. Spearman correlation analysis was performed to investigate the relationship between aPS/PT and other clinical/laboratory parameters.

Results: The prevalence of aPS IgG, aPS IgM, aPT, aPEn, aPS IgM, aPT, anti-annexin V-antibodies (aANV), anti-cardiolipin antibody (aCL) and anti-prothrombin-antibodies (aIpG/aIgG) were associated with thrombotic events and oxLDL, aPS IgG and APHL IgM were correlated with anti-cardiolipin antibody (aCL), aPS IgG and APHL IgM were associated with thrombotic events and oxLDL, aPEn, aPS IgG, aPS IgM, aPT, aCL and apxLDL were associated with anti-prothrombin-antibodies (aIpG/aIgG) and anti-annexin V-antibodies (aANV), anti-cardiolipin antibody (aCL) and anti-prothrombin-antibodies (aIpG/aIgG) and aPS IgM, and aPS IgG, aPS IgM, and aPT, aPS IgG and APHL IgM were associated with thrombotic events and oxLDL, and aPS IgM and aPT, aPS IgG and APHL IgM were associated with thrombotic events and oxLDL, aPS IgG and APHL IgM were associated with thrombotic events and oxLDL, aPS IgG and APHL IgM were associated with thrombotic events and oxLDL, and aPS IgG and APHL IgM were associated with thrombotic events and oxLDL.

Conclusions: Non-criteria aPLs have a good diagnostic value in APS and were associated with thrombotic events.

REFERENCES:

Disclosure of Interest: None declared


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AB0560  PATIENTS WITH RHEUMATOID ARTHRITIS AND LUPUS HAVE SIMILAR PREVALENCE OF PERIODONTITIS – A CROSS-SECTIONAL SURVEY
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Background: Periodontitis (PD) is a chronic inflammatory disease of the gingival tissues triggered by a dysbiotic microflora and causing the loss of soft and hard tissues surrounding the dentition. Over the last two decades, PD has been linked to a systemic inflammatory response and an increased risk of other comorbidities including cardiovascular diseases and diabetes. Numerous observational studies have confirmed an association between PD and rheumatic diseases. Some evidence suggests an association with rheumatoid arthritis (RA) and a beneficial effect of periodontal treatment on RA outcomes. Scarce evidence instead exists on the association between PD and Systemic Lupus Erythematosus (SLE). The main aim of this study was to evaluate the prevalence of PD in RA and SLE.

Methods: We conducted a cross-sectional survey of consecutive eligible outpatients with RA and SLE attending the Rheumatology Department at UCLH. PD diagnosis was estimated administering a validated self-reported questionnaire. Medical histories, cardiomolecular risk factors and assessment of standard biomarkers of inflammation and RA activity were collected as part of the outpatients’ visit.

Results: 86 patients affected by RA and 122 by SLE and 5 presenting both diseases were recruited and agreed to complete the questionnaire. PD was detected in 100 patients of the overall survey (47%), 38 (44%) patients with RA and 59 (48%) patients with SLE had prevalent PD. There was no statistically significant difference in the prevalence of PD between the two patients’ groups (p=0.575). PD was associated with diagnosis of diabetes (p=0.023), hypertension (p=0.004) and hypercholesterolemia (p<0.0001). Diagnosis of PD was associated with increased levels of C-reactive protein (CRP) (2.8±3.3 vs 4±0.4, p=0.03) in the whole population. In RA patients PD was associated with increased CRP (3.2±3.2 vs 5.2±4.4, p=0.014) and ESR (9.8±10.0 vs 18.3±16.6, p=0.008).

Conclusions: Prevalence of PD is similar in both RA and SLE (approximately 45%) and to the UK estimates (Adult Dental Survey 2009). PD could contribute to an increased inflammatory profile in patients with RA and SLE. Our data highlight the need of assessing oral health needs of patients with rheumatic diseases.

Disclosure of Interest: None declared

AB0562  EXTRAGLANDULAR MANIFESTATIONS IN PATIENTS WITH PRIMARY SJÖGREN SYNDROME IN A TERTIARY HOSPITAL IN MADRID
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Background: Primary Sjögren syndrome (pSS) is a chronic autoimmune disorder characterised by generalised dryness. In a variable percentage of cases (up to 50%) patients can present extraglandular disease, which frequently determines the prognosis.

Objectives: To determine the frequency of both glandular and extraglandular disease in patients with SSS seen in a tertiary hospital in Madrid and to compare them with the frequency observed in the large cohorts (SER and EULAR).

Methods: A descriptive, observational cross-sectional study was conducted. We included patients with diagnosis of pSS according to the ACR/EULAR Classification criteria (2016) attended in our Rheumatology Unit from 2012 to 2017. A database was created, including clinical and epidemiological data and a descriptive analysis was carried out comparing the results with those obtained in the Sjögren-SER project and EULAR group.

Results: 106 patients with pSS were included. 92.5% were female (98), with a mean age at diagnosis of 45 years (range: 32–58). Frequency of exocrine gland disease is shown in table 1. Dry eye was the most frequent symptom (91%), with nearly half of them presenting ocular complications. 69.8% complained of dry mouth and 18.9% associated complications such as dysphagia and oral candidiasis. 16 patients (15%) suffered from recurrent parotiditis and 13 (12.3%) from salivary gland enlargement. Glandular disease also included keratoconjunctivitis (25%), dyspareunia (11.3%), upper respiratory tract dryness (12.3%) and atrophic chronic gastritis (14%). Frequency of extraglandular disease is shown in table 2. Chronic fatigue was the most frequent symptom, similar to the observed in both cohorts (50.9%), followed by arthralgia which was less frequent than in the Spanish (40.6% vs 54.5%). 35 patients suffered from inflammatory arthritis and 3 cases associated fibromyalgia, less than the expected (2.8% vs 14.6% and 22%–33%). Sixteen patients suffered from interstitial lung disease, this being higher than the observed in both cohorts (15.1% vs 6.64% and 5%). Fewer patients suffered from depression compared with the EULAR group (24.5% vs 40%). Both peripheral neuropathy and renal disease were diagnosed in a percentage of patients similar to the expected (11.3% vs 8.92% and 1.88% vs 1.83% respectively). 7 patients had autoimmune thyroid disease. Finally, 5 patients (4.7%) developed lymphoma, 3 of them being MALT lymphoma of the parotid gland.