

present for the rest of their lives, 90% appreciate that treatment is improving the QoL mean 9.3 (1,3), 68% consider to have many severe symptoms, more than 80% patients consider themselves preoccupied for their illness, more than 70% are emotionally affected by their illness and 48% consider stress being the main determinant factor of their illness.

Questionnaire EQ-5d: 10% must stay in bed due to the disease, 8,33% can not wash or dress themselves, 12,5% are unable to perform usual daily activities, 62% experience pain or a moderate uncomfortable state and 65% are worried and or depressed. Cardio-vascular manifestations are correlated with diminished mobility ($p=0,002$) leading to deficiency in self care ($p=0,002$) also correlated with renal ($p=0,034$) and psychiatric ($p=0,022$) manifestations. Psychiatric manifestations also affect usual daily activities ($p=0,05$). Age is correlated with pain and uncomfortable state ($p=0,004$) but the responses to this item of EQ5D are not correlated with organ affection, biological modification or disease activity scores. The presence of cutaneous manifestations is correlated with anxiety and depression ($p=0,02$).

Based on SF36 when calculating the mean value on each category was observed all the 8 categories affected - smallest values at physical role (37,32) and general health (34,21), less influenced part being the social function (51,32). None of these items of SF 36 is correlated with SLICC or SLEDAI.

Conclusions: SLEDAI as well as SLICC or specific organ involvement give no indications over the patients QoL, which must be assessed by performing HAQ and SF 36.

References:

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SAT0289 CARDIOVASCULAR RISK STATUS MODIFICATION IN SLE PATIENTS BY MEANS OF CAROTID ULTRASOUND EXAMINATION

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Background: Systemic lupus erythematosus (SLE) is associated with a higher cardiovascular risk (CVR), at least doubled when compared with the general population, as well as an increased prevalence of atherosclerosis, which occurs prematurely and independently of traditional CVR factors. The presence of atheromatous plaques documented with carotid ultrasound (US) examination implies a change in the patient's CVR category to "very high risk", according to the "European Guidelines on cardiovascular disease prevention in clinical practice, 2016". General guidelines do not take into account the specific increase in CVR risk that it's present in patients with autoimmune diseases.

Objectives: To examine if the use of carotid US leads to a more accurate CVR classification in SLE patients, and in that way to a better CVR management.

Methods: Cross-sectional study that encompassed 102 SLE patients currently being followed in our Rheumatology Department. Demographic variables, the presence of CVR factors and previous/current CV events, disease duration and drug use were analysed; lipid profile was assessed using blood tests, as well as carotid intima media thickness and the presence of carotid plaques using US scan. The current CVR status was calculated using the SCORE classification (low risk <1%, moderate risk <5%, high risk <10% and very high risk >10%).

Results: 95% of our patients were women, mean age was 51.6 +/- years, median disease duration was 16 years (IQR 9-28). 35.29% of patients presented with at least one CVR factor before the SLE diagnosis, and 61.76% at the time of the research (19.60% current smokers, 39.21% high blood pressure (HBP), 33.33% dyslipidemia, 7.84% type II diabetes. A CV event was diagnosed in 11.76% of our patients throughout their SLE disease. According to the SCORE classification, 55 of them had a low CVR (53.92%), 26 moderate CVR (25.49%), 6 high CVR (5.88%) and 15 of them very high CVR (14.70%). Carotid plaques were found in 28 patients (27.45%): 23 of them had never had a CV event (22.54%), 21.42% of them were current smokers, 64.28% had HBP, 53.57% dyslipidemia and 17.86% type II diabetes. After adjustment of the SCORE classification with the presence of carotid plaques, 16.36% of patients from the "low CVR" category would be re-classified as having "very high CVR", as well as 30.76% from the "moderate CVR" category and 50% from the "high CVR" category. Of note, 8 patients within the "very high CVR" category also presented carotid plaques. Out of this patients with atheroma plaque, 13 were not using statins, and in 2 of them it would have been mandatory in order to achieve the LDL <70mg/dl target. In 2 of the 15 patients that were indeed under statins this target was not achieved. 60.71% of the atheromatous patients were under hydrochloroquine use and 17.64% of them used steroids as a regular basis (33.33% of them within the medium range dose).

Conclusions: More than half of our SLE patients presented with at least 1 CVR factor. Around 15% of patients were categorised as "very high CVR" according to the SCORE classification. The presence of carotid plaque was found in 27.45% of our patients, and 82% of them hadn't suffered any CV event. The use of carotid US examination allowed us to re-classify 20 patients (19.60%) in the "very high risk" category according to the SCORE classification. The need for a change in CVR management (ie., change in statin regime) was demonstrated in 4 of this 20 "re-classified" patients.

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SAT0290 OSTEONECROSIS IS THE MOST COMMON ORGAN DAMAGE AND IS ASSOCIATED WITH CUMULATIVE STEROID DOSAGE AS WELL AS LUPUS NEPHRITIS ITSELF IN PATIENTS WITH SLE

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Background: In patients with SLE, musculoskeletal system is common organ system involved cumulatively over time. Osteonecrosis (ON) is common in musculoskeletal damage accrual and often disabling. Steroid use has been a risk factor in the development of ON, but SLE itself has also been suggested to have a role. It is important to understand factors related to the development of ON.

Objectives: We investigated the overall profile of organ damage accrual, particularly musculoskeletal damage and focused on factors associated with ON in a single Asian cohort.

Methods: Patients with SLE who met American College of Rheumatology (ACR) criteria were enrolled and followed from 1998 to 2014 in the Hanyang BAE Lupus cohort. Systemic Lupus International Collaborating Clinics/American College of Rheumatology Damage Index (SDI) was measured annually. ON was confirmed by X-ray, bone scan or MRI. Patients with ON was compared to controls without ON from the same cohort for clinical, laboratory, and therapeutic factors. Univariate logistic regression followed by multivariate logistic regression were used to determine risk factors for ON.

Results: We recruited 1,219 SLE patients. The most common type of organ damage was musculoskeletal (205 patients, 16.8%). ON was the most common subtype (133 patients, 10.9%) of the musculoskeletal damage. The mean time from diagnosis of SLE to development of ON was 4.97±4.15 (0.17~20.25) years. One hundred twenty-six patients were eligible for identifying distribution of ON. Overall, 291 joints were affected by ON and mean number of ON joint per patients with ON was 2.3±1.23 (1~9). The percentage of >2 joint involvement was 24.6%. The hip (femoral head) was the most frequently involved joint (65.6%), followed by the knee (distal femur, proximal tibia, proximal fibula, patella: 20.6%), shoulder (humeral head: 5.2%) and ankle (distal tibia, distal fibula, talus: 5.2%). In univariate analysis, age at diagnosis, follow up duration, accumulative number of ACR criteria, serositis, renal disorder & neurologic disorder (based on ACR criteria), cyclophosphamide & mycophenolate use, and cumulative steroid dosage were significantly associated with ON. In multivariate analysis, renal disorder ($p=0.0109$), and cumulative steroid usage ($p=0.0131$) were significantly associated with ON.

To evaluate the effect of cumulative steroid usage on ON, age, sex and disease duration matched ON cases and controls (1:4, a total of 665 patients) were selected from the same cohort. Total cumulative steroid dosage was divided into 4 groups by grams (>0 & ≤5g, >5g & ≤10g, >10g & ≤20g, and >20g). More than 10g group of cumulative steroid use was significantly associated with ON. And then we stratified 530 patients according to biopsy proven lupus nephritis (class III to V) and cumulative steroid dose (10g cut-off), and tested by Chi-square test and logistic regression. ON was significantly higher in the group with lupus nephritis within >10g group of total cumulative steroid.

Table 1. Total cumulative steroid dose as risk factor for ON

Total cumulative steroid dose(g)	OR (95% CI)	p-value
>0 & ≤5	1.00	
>5 & ≤10	2.00 (0.91-4.39)	0.0844
>10 & ≤20	2.34 (1.19-4.58)	0.0133
>20	2.96 (1.60-5.47)	0.0005

Table 2-1. Association between Osteonecrosis and lupus nephritis based on total cumulative steroid 10g

Total cumulative steroid dose >10g (371 patients)	Total			p-value
	Total	ON(+)	ON(-)	
Lupus nephritis(+)	196	58(29.59)	138(70.41)	0.0018
Lupus nephritis(-)	175	27(15.43)	148(84.57)	

Table 2-2. Association between Osteonecrosis and lupus nephritis based on total cumulative steroid 10g

	OR (95% CI)	p-value
Steroid doses ≤10 & Lupus nephritis(-)	1.00	
Steroid doses >10 & Lupus nephritis(-)	1.58 (0.81-3.10)	0.1826
Steroid doses ≤10 & Lupus nephritis(+)	2.48 (1.02-5.99)	0.0441
Steroid doses >10 & Lupus nephritis(+)	3.64 (1.97-6.75)	<0.0001

Conclusions: ON was the most frequent damage in lupus patients. We confirmed again cumulative steroid dosage as a risk factor for the development of ON. In addition, lupus nephritis itself was suggested as an independent risk factor for ON.

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