Abstract 1302 Table 1 SLICC Classification Criteria Attribute Identification Rates

Criterion	All Patients	No SLE Diagnoses	≥3 SLE Diagnoses	p (No SLE vs. ≥3)
Oral Ulcer	26079 (2.1%)	25760 (2.1%)	227 (3.5%)	8.45E-14
Alopecia	30092 (2.5%)	29598 (2.5%)	327 (5%)	4.03E-40
SLICC Neurological	214984 (18%)	212624 (18%)	1462 (23%)	2.78E-24
Arthritis	30693 (2.5%)	29949 (2.5%)	442 (6.8%)	1.82E-107
Serositis	87479 (7.2%)	85870 (7.1%)	1133 (17%)	8.83E-225
Acute Cutaneous Lupus	3644 (0.3%)	2062 (0.17%)	1256 (19%)	<2.23e-308
Chronic Cutaneous Lupus	2704 (0.22%)	1221 (0.1%)	1141 (18%)	<2.23e-308
SLICC Renal	127890 (11%)	125377 (10%)	1866 (29%)	<2.23e-308
Thrombocytopenia	77681 (6.4%)	76313 (6.3%)	928 (14%)	1.02E-149
Leukopenia	808840 (67%)	800966 (67%)	4989 (77%)	1.56E-68
Hemolytic Anemia	17123 (1.4%)	16672 (1.4%)	314 (4.8%)	1.71E-121
Antinuclear Antibodies	28842 (2.4%)	26257 (2.2%)	1715 (26%)	<2.23e-308
Anti-DsDNA Antibodies	22867 (1.9%)	19136 (1.6%)	2706 (42%)	<2.23e-308
Anti-Sm Antibodies	1473 (0.12%)	936 (0.078%)	388 (6%)	<2.23e-308
Antiphospholipid Antibodies	3774 (0.31%)	3139 (0.26%)	458 (7.1%)	<2.23e-308
Direct Coombs Test	809 (0.067%)	691 (0.057%)	91 (1.4%)	<2.23e-308
Complement	9696 (0.8%)	6707 (0.56%)	2401 (37%)	<2.23e-308

SLE diagnostic codes: 1,201,999 persons with no diagnosis codes for SLE. All criteria items occurred significantly more often in persons with SLE compared with those without SLE and the greatest differences in SLICC attributes identified: Acute Cutaneous: 19% v. 0.17%; Chronic Cutaneous: 18% vs. 0.1%, Renal: 29% vs. 10%, Thrombocytopenia: 14% vs. 6.3%, Antinuclear Antibodies: 26% vs. 2.2%, Anti-dsDNA Antibodies: 42% vs. 1.6%, Anti-Sm Antibodies: 6% vs. 0.08%, Antiphospholipid Antibodies: 7.1% vs. 0.26%, Low complement: 37% vs. 0.6%, Direct Coombs Test: 1.4% vs. 0.06%. There were 2770 persons (43%) among those ≥3 SLE diagnoses and 9770 persons (0.81%) without SLE satisfying the SLICC definition of 'Definite SLE'.

Conclusions The results demonstrate identification of all SLICC classification criteria attributes in the CAPRICORN data set, an increased rate of attribute identification for all SLICC criteria, and an increased rate of definite SLE classification via SLICC in persons with ≥3 SLE diagnostic codes compared to those without SLE diagnostic codes. This suggests that SLE presentation can be characterized in CDRN data.

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1303

THE NEW EULAR/ACR 2019 SLE CLASSIFICATION CRITERIA: A PREDICTOR OF LONG-TERM OUTCOMES

Laura Whittall-Garcia, Murray B Urowitz*, Dafna D Gladman, Jiandong Su, Zahi Touma, Sindhu R Johnson. *University of Toronto, University Health Network, Toronto, Ontario, Canada*

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Background We recently demonstrated that a EULAR/ACR classification Criteria score ≥ 20 predicts a higher disease

activity throughout the first 5 years after diagnosis. Given that disease activity is associated with damage accrual and mortality, we aimed to determine the ability of a EULAR/ACR score ≥20 to predict these long-term outcomes.

Methods Inception SLE patients recruited in the first 12 months after diagnosis were included.

For each patient a EULAR/ACR score was calculated based on the baseline clinical and laboratory information. The baseline information was obtained from the first 2 visits.

Patients were divided into 2 groups depending on their EULAR/ACR score <20 or ≥20. In order to determine the ability of a EULAR/ACR ≥20 to predict damage accrual and mortality the following outcomes were assessed:

1. Time to first damage accrued: Defined as the first increase in SLICC/ACR Damage Index from 0 to ≥ 1 within the first 10 years after SLE diagnosis, with death as a competing risk. 57 patients with damage at entry were excluded
2. Time to first increase in damage: Defined as any increase in the SLICC/ACR Damage Index within the first 10 years after SLE diagnosis, with death as a competing risk.
3. Mean SDI score at the 10th year of follow-up.
4. Time to death within the first 10 years after SLE diagnosis
5. Multivariable Cox Proportional regression was performed to calculate the risk and possible confounders.

Results A total of 867 inception patients were included. Table 1 shows baseline clinical characteristics of the cohort.

The proportion of patients who accrued damage within the first 10 years and the mean SDI at 10 years were significantly higher in the group of ≥ 20. When looking at the specific domains in SDI, the group with a score ≥ 20 at 10 years of follow-up had significantly more renal damage and a higher percentage of diabetes (table 2).

On multivariable regression analysis, after adjusting for age and ethnicity, a score ≥ 20 continued to significantly predict damage accrual, HR 1.28 (1.04-1.57), p=0.02. When we excluded patients who had damage at enrollment the results were similar (table 3).

Sixty-eight (7.8%) of patients died within the first 10 years of follow-up, the percent of deaths was higher in the group

Abstract 1303 Table 1 Demographic characteristics in our cohort at baseline. Values are expressed as mean ± SD or n (%)

Variables	EULAR/ACR Score < 20, N = 415	EULAR/ACR Score ≥ 20, N = 452	P value
Race			
Caucasian	316 (76.1)	262 (58.0)	<0.001
Black	42 (10.1)	81 (17.9)	0.002
Chinese	20 (4.8)	52 (11.5)	<0.001
Age, years	38.1 ± 15.1	34.5 ± 13.1	<0.001
Disease duration, years	0.2 ± 0.3	0.2 ± 0.3	0.86
SLEDAI-2K score	6.3 ± 5.4	12.2 ± 8.9	<0.001
SDI^a score	0.1 ± 0.4	0.1 ± 0.4	0.13
SDI^a > 0	23 (5.5)	34 (7.5)	0.24
Treatment			
GC ^b use	241 (58.1)	374 (82.7)	<0.001
Immunosuppressive use	83 (20.0)	166 (36.7)	<0.001
Antimalarial use	222 (53.5)	247 (54.6)	0.73

^aSLICC/ACR Damage Index.

^bGlucocorticoid.

Abstract 1303 Table 2 Outcomes within 10 years of follow-up. Values are expressed as mean $\pm$ SD or n (%)

Outcomes	EULAR/ACR score < 20 N=415	EULAR/ACR score $\geq$ 20 N=452	P value
Death	24 (5.8)	44 (9.7)	0.03
Time to death, years	5.0 $\pm$ 2.9	3.6 $\pm$ 3.1	0.07
Increase in SDI ^a	167 (40)	210 (46)	0.02
Time to SDI ^a increase, years	2.9 $\pm$ 2.7	3.0 $\pm$ 2.9	0.52
SDI ^a score [#]	0.97 $\pm$ 1.42	1.28 $\pm$ 1.47	0.03
SDI ^a Domains [#]			
Ocular	20 (10.26)	34 (15.96)	0.08
Neurologic	19 (9.74)	28 (13.15)	0.28
Renal	5 (2.56)	19 (8.92)	0.006
Pulmonary	3 (1.54)	9 (4.23)	0.10
Cardiovascular	22 (11.28)	14 (6.57)	0.09
Vascular	6 (3.08)	8 (3.76)	0.70
Gastrointestinal	5 (2.56)	6 (2.82)	0.87
Musculoskeletal	38 (19.49)	54 (25.35)	0.15
Skin	18 (9.23)	21 (9.86)	0.82
Gonadal	1 (0.51)	3 (1.41)	0.35
Diabetes	3 (1.54)	14 (6.57)	0.01
Malignancy	5 (2.56)	3 (1.41)	0.40

[#]At 10 years of follow-up, N = 190 and 206 in the low and high score groups respectively.

^aSLICC/ACR Damage Index

Abstract 1303 Table 3 Univariate and Multivariable Cox Regression analysis. Factors associated with damage accrual and death within 10 years of follow-up

	Univariate Cox Regression		Multivariable Cox Regression	
VARIABLE	Hazard Ratio (95% CI)	P value	Hazard Ratio (95% CI)	P value
First damage accrued (any increase in SDI^a)				
Age at first visit	1.02 (1.01-1.03)	<0.001	1.02 (1.01-1.03)	<0.001
Caucasian vs non-caucasian	0.88 (0.71-1.08)	0.22	0.89 (0.72-1.11)	0.31
EULAR/ACR score < or $\geq$ 20	1.21 (0.98-1.48)	0.07	1.3 (1.04-1.57)	0.02
First damage accrued (Initial SDI^a >0)[#]				
Age at first visit	1.02 (1.01-1.03)	<0.001	1.02 (1.02-1.03)	<0.001
Caucasian vs non-caucasian	0.88 (0.71-1.10)	0.27	0.91 (0.73-1.14)	0.42
EULAR/ACR score < or $\geq$ 20	1.25 (1.01-1.54)	0.04	1.33 (1.07-1.64)	0.009
Mortality				
Age at first visit	1.05 (1.03-1.06)	<0.001	1.05 (1.03-1.07)	<0.001
Caucasian vs non-caucasian	1.46 (0.84-2.57)	0.17	1.48 (0.84-2.62)	0.17
EULAR/ACR score < or $\geq$ 20	1.66 (1.01-2.73)	0.04	2.13 (1.28-3.54)	0.003

[#]57 patients who had damage at entry were excluded for the analysis.

^aSLICC/ACR Damage Index.

with a score $\geq$ 20, (table 2). Individuals in the $\geq$ 20 group had twice the probability of dying compared to patients with the lower score, the hazard ratios with significant p values confirmed this finding (table 3).

Conclusion A EULAR/ACR score $\geq$ 20 is an indicator of damage accrual and mortality in SLE.

1304 FACTORS IN LUPUS DIAGNOSIS

¹Daria McClamb*, ²Lydia Oberholtzer, ¹Ashley Marion, ¹Lauren Topf, ¹Mary Crimmings, ¹Karin Tse, ³John Wegener, ³Valerie Melucci, ³Tyler O'Malley, ³Debra Zack, ⁴Donald E Thomas. ¹Lupus Foundation of America, Washington, DC; ²Sharp Insight, Montgomery County, Maryland; ³Exagen Inc., Vista, CA; ⁴Arthritis and Pain Associates of PG County

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Background Lupus is a complex, chronic autoimmune disease affecting an estimated 1.5 million Americans.

Lupus symptoms are heterogeneous. Suboptimal diagnostic tests have contributed to diagnostic delay. Reducing diagnostic time is critical to preventing poor long-term outcomes. An objective of the 2020 survey sought to understand how access to healthcare is associated with diagnostic delay factors.

Methods A 25-question retrospective cross-sectional online survey on diagnostic time factors was developed by the Lupus Foundation of America (LFA) in partnership with Exagen. Using convenience sampling, individuals who self-reported SLE were recruited and 1,313 responded. Descriptive statistics and chi-square tests were conducted.

Results Almost half of respondents (45.4%) were diagnosed within a year of their first health care provider visit to discuss symptoms, while 29.1% reported five or more years to diagnosis. Factors delaying diagnosis may include misdiagnosis and the number of visited doctors. On average, respondents saw 2.8 different types of doctors before diagnosis. Nearly a third reported they were diagnosed with anxiety (31.7%), depression (29.8%), or fibromyalgia (23.0%) before their lupus diagnosis, and 21.8% were told nothing was wrong with them.

Decreased care access and high costs associated with delayed lupus diagnosis. More than a third (35.9%) of respondents diagnosed after five or more years reported that out-of-pocket costs were too high, compared to 22.8% diagnosed within a year (table 1). Over half diagnosed after a year cited long wait times for specialist appointments,

Abstract 1304 Table 1 Challenges to Care in Lupus Diagnosis and Time to Diagnosis (N=1,302)

Challenge Reported	Percent of Respondents (%)	P-value
Out-of-pocket costs too high		0.001
< 1 year	22.8	
1 – 4 years	35.2	
5+ years	35.9	
Long wait times for specialists		0.001
< 1 year	39.4	
1 – 4 years	55.4	
5+ years	58.3	
Insurance did not cover costs of services		0.003
< 1 year	8.6	
1 – 4 years	13.9	
5+ years	15.3	
Long wait times for PCP		0.001
< 1 year	8.3	
1 – 4 years	15.4	
5+ years	17.2	
Not enough doctors nearby to treat Lupus		0.03
< 1 year	25.2	
1 – 4 years	32.2	
5+ years	31.9	