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Supplementary Table 1. Correlations between numbers of instrumental and basic activity of daily living limitations and other potential indicators of disability.

	Number of IADLs	Number of BADLs	SPPB overall score	Physical functioning T-score	Age- corrected fluid cognition score	Receipt of disability benefits	UAB- LSA score
Number of IADLs	1.00	---	---	---	---	---	---
Number of BADLs	0.74 ^a	1.00	---	---	---	---	---
SPPB overall score	-0.35 ^a	-0.36 ^a	1.00	---	---	---	---
Physical functioning T-score	-0.70 ^a	-0.64 ^a	0.44 ^a	1.00	---	---	---
Age-corrected fluid cognition score	-0.29 ^a	-0.24 ^a	0.33 ^a	0.23 ^b	1.00	---	---
Receipt of disability benefits	0.29 ^a	0.21 ^a	-0.28 ^a	-0.41 ^a	-0.23 ^b	1.00	---
UAB-LSA score	-0.37 ^a	-0.38 ^a	0.29 ^a	0.35 ^a	0.31 ^a	-0.21 ^a	1.00

BADL, basic activity of daily living; IADL, instrumental activity of daily living; SPPB, Short Physical Performance Battery; UAB-LSA, University of Alabama-Birmingham Life-Space Assessment. Physical performance [Short Physical Performance Battery (range, 0-12; higher scores represent better performance)]; physical functioning T-score [PROMIS Physical Functioning-Short Form 12a (mean=50, SD=10; higher scores represent better functioning)]; composite age-corrected standard score for fluid cognition [NIH Toolbox Fluid Cognition Battery (mean=100, SD=15; higher scores represent better performance)]; and community mobility [UAB Study of Aging Life-Space Assessment (range, 0-120; higher scores represent greater community mobility)].

^a $P < 0.001$.

^b $P = 0.001$.

Supplemental Table 2. Sequentially adjusted associations of any limitations in instrumental activities of daily living among individuals with systemic lupus erythematosus, by selected participant characteristics

Characteristic	OR (95% CI) for any limitation in IADLs ^a				
	Unadjusted	Adjusted for demographics	Adjusted for demographics + SES	Adjusted for demographics + SES + SLE factors	Adjusted for demographics + SES + SLE factors + comorbid conditions
Age category					
18-34	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
35-49	1.68 (1.00-2.83)	1.65 (0.98-2.79)	1.82 (1.06-3.16)	1.74 (0.92-3.27)	1.70 (0.90-3.23)
≥50	1.76 (1.05-2.94)	1.78 (1.06-2.99)	2.07 (1.20-3.57)	1.80 (0.95-3.41)	1.80 (0.95-3.41)
Sex					
Female	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Male	0.60 (0.30-1.19)	0.60 (0.30-1.21)	0.59 (0.28-1.23)	0.61 (0.26-1.47)	0.59 (0.24-1.45)
Race					
Black	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Other	0.87 (0.38-1.99)	0.92 (0.40-2.12)	1.21 (0.49-3.02)	1.77 (0.61-5.14)	1.88 (0.49-2.49)
White	0.65 (0.36-1.18)	0.63 (0.35-1.14)	1.08 (0.55-2.14)	1.07 (0.48-2.39)	1.11 (0.65-5.44)
Hispanic ethnicity					
Hispanic	0.76 (0.34-1.74)	0.94 (0.38-2.33)	1.09 (0.42-2.82)	0.60 (0.17-2.13)	0.63 (0.18-2.23)
Not Hispanic	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Level of education					
≤High school	2.16 (1.30-3.59)	2.20 (1.31-3.71)	1.27 (0.68-2.35)	1.40 (0.67-2.89)	1.38 (0.66-2.89)
Some college	1.89 (1.22-2.92)	1.88 (1.21-2.93)	1.47 (0.91-2.36)	0.96 (0.54-1.69)	0.95 (0.54-1.69)
≥College graduate	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Annual household income					
<\$20,000	2.90 (1.73-4.86)	3.20 (1.80-5.68)	2.75 (1.42-5.34)	1.84 (0.85-3.99)	1.91 (0.87-4.20)
\$20,000-59,999	1.91 (1.16-3.12)	2.06 (1.19-3.57)	1.86 (1.05-3.29)	1.83 (0.94-3.56)	1.98 (1.01-3.88)
≥60,000	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Receiving disability benefits					
Yes	3.55 (2.36-5.33)	3.53 (2.31-5.39)	2.88 (1.82-4.56)	3.11 (1.75-5.51)	3.02 (1.69-5.39)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
SLAQ score					
≥Median	6.47 (4.16-10.1)	6.49 (4.15-10.2)	6.62 (4.13-10.6)	6.33 (3.94-10.2)	6.30 (3.90-10.2)

OR (95% CI) for any limitation in IADLs ^a					
Characteristic	Unadjusted	Adjusted for demographics	Adjusted for demographics + SES	Adjusted for demographics + SES + SLE factors	Adjusted for demographics + SES + SLE factors + comorbid conditions
<Median	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
BILD score					
≥Median	1.82 (1.22-2.72)	1.76 (1.17-2.66)	1.61 (1.05-2.48)	1.14 (0.69-1.88)	0.90 (0.51-1.59)
<Median	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
On steroids					
Yes	1.27 (0.86-1.89)	1.39 (0.93-2.08)	1.33 (0.87-2.02)	1.22 (0.75-2.00)	1.31 (0.79-2.17)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Obesity					
Yes	1.28 (0.87-1.88)	1.17 (0.78-1.74)	1.14 (0.75-1.72)	1.12 (0.69-1.82)	1.09 (0.67-1.79)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Physical activity					
Low	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Moderate	0.38 (0.22-0.66)	0.41 (0.23-0.71)	0.42 (0.24-0.75)	0.51 (0.26-1.00)	0.53 (0.27-1.05)
High	0.21 (0.11-0.42)	0.21 (0.11-0.43)	0.25 (0.12-0.50)	0.26 (0.11-0.59)	0.28 (0.12-0.63)
Depression T-score					
≥Mean	3.20 (2.14-4.78)	3.41 (2.26-5.15)	3.75 (2.43-5.79)	2.21 (1.34-3.62)	2.24 (1.36-3.69)
<Mean	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
PSS score					
≥Mean	2.71 (1.80-4.07)	2.72 (1.80-4.11)	2.46 (1.59-3.80)	1.34 (0.80-2.24)	1.37 (0.81-2.29)
<Mean	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)

BILD, Brief Index of Lupus Damage; BMI, body mass index; IADL, instrumental activity of daily living; PSS, Perceived Stress Scale; SES, socioeconomic status; SLAQ, Systemic Lupus Activity Questionnaire; SLE, systemic lupus erythematosus. SLAQ median=12 ($n=188$ ≥median/ $n=229$ <median); BILD median=3 ($n=164$ ≥median/ $n=272$ <median); depression T-score mean=48.2 ($n=223$ ≥mean/ $n=197$ <mean); PSS score mean=16 ($n=204$ ≥mean/ $n=199$ <mean).

^aAdjustment variables were: demographics: age, sex, race; SES: education, income; SLE factors, SLAQ and BILD; comorbid conditions: cardiovascular, cerebrovascular, and pulmonary disease (extracted from BILD).

Supplemental Table 3. Unadjusted associations of any limitations in instrumental activities of daily living among subgroups of individuals with systemic lupus erythematosus, by selected participant characteristics

Characteristic	OR (95% CI) for any limitation in IADLs			
	Primary analysis	Among those not receiving disability benefits	Among Black participants	Among White participants
Age category				
18-34	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
35-49	1.68 (1.00-2.83)	1.63 (0.84-3.18)	1.53 (0.87-2.71)	2.67 (0.41-17.2)
≥50	1.76 (1.05-2.94)	1.02 (0.50-2.07)	1.62 (0.92-2.86)	3.50 (0.59-20.7)
Sex				
Female	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Male	0.60 (0.30-1.19)	1.22 (0.48-3.12)	0.67 (0.32-1.39)	0.35 (0.03-3.59)
Race				
Black	1.00 (ref.)	1.00 (ref.)	---	---
Other	0.87 (0.38-1.99)	1.71 (0.64-4.54)	---	---
White	0.65 (0.36-1.18)	0.91 (0.45-1.83)	---	---
Hispanic ethnicity				
Hispanic	0.76 (0.34-1.74)	1.03 (0.37-2.87)	0.48 (0.08-2.92)	1.44 (0.41-5.10)
Not Hispanic	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Level of education				
≤High school	2.16 (1.30-3.59)	3.59 (1.71-7.53)	1.85 (1.07-3.19)	1.50 (0.19-12.1)
Some college	1.89 (1.22-2.92)	1.25 (0.69-2.27)	1.75 (1.07-2.84)	2.14 (0.64-7.19)
≥College graduate	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Annual household income				
<\$20,000	2.94 (1.73-5.00)	4.03 (1.88-8.61)	3.05 (1.62-5.72)	0.96 (0.14-6.40)
\$20,000-59,999	2.14 (1.27-3.61)	1.55 (0.84-2.84)	1.75 (0.95-3.23)	8.63 (0.95-78.7)
≥60,000	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Receiving disability benefits				
Yes	3.55 (2.36-5.33)	---	3.71 (2.38-5.78)	6.00 (1.13-32.0)
No	1.00 (ref.)	---	1.00 (ref.)	1.00 (ref.)
SLAQ score				
≥Median	6.47 (4.16-10.1)	8.30 (4.50-15.3)	6.42 (3.96-10.4)	8.69 (2.31-32.7)
<Median	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
BILD score				
≥Median	1.82 (1.22-2.72)	1.68 (0.91-3.11)	1.54 (1.00-2.37) ^a	6.79 (1.80-25.7) ^a
<Median	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
On steroids				
Yes	1.27 (0.86-1.89)	1.25 (0.74-2.12)	1.17 (0.77-1.78)	1.75 (0.51-6.06)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Obesity				
Yes	1.28 (0.87-1.88)	1.33 (0.79-2.23)	1.10 (0.72-1.69)	1.71 (0.52-5.65)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Physical activity				
Low	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Moderate	0.38 (0.22-0.66)	0.60 (0.29-1.23)	0.29 (0.15-0.56)	0.89 (0.24-3.28)
High	0.21 (0.11-0.42)	0.34 (0.16-0.76)	0.32 (0.15-0.70)	0.13 (0.02-0.71)

Characteristic	OR (95% CI) for any limitation in IADLs			
	Primary analysis	Among those not receiving disability benefits	Among Black participants	Among White participants
Depression T-score				
≥Mean	3.20 (2.14-4.78)	3.12 (1.80-5.41)	3.42 (2.19-5.34)	3.05 (0.92-10.1)
<Mean	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
PSS score				
≥Mean	2.71 (1.80-4.07)	3.43 (1.97-5.96)	2.52 (1.61-3.96)	3.71 (1.12-12.2)
<Mean	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)

IADL, instrumental activity of daily living.

^a*P* for interaction < 0.05.

Supplementary Table 4. Any limitations in instrumental and basic activities of daily living among individuals with systemic lupus erythematosus, by presence of system damage^a

System damage	Any limitation in:			
	IADLs		BADLs	
	No. (%)	aOR ^b (95% CI)	No. (%)	aOR ^b (95% CI)
Ocular				
Yes	86 (64.2%)	1.49 (0.95-2.32)	64 (47.8%)	1.07 (0.69-1.66)
No	159 (52.7%)	1.00 (ref.)	127 (42.1%)	1.00 (ref.)
<i>P^c</i>	0.03		0.3	
Neuropsychiatric				
Yes	56 (75.7%)	2.96 (1.66-5.27)	46 (62.2%)	2.53 (1.49-4.29)
No	189 (52.2%)	1.00 (ref.)	145 (40.1%)	1.00 (ref.)
<i>P^c</i>	<0.001		<0.001	
Renal				
Yes	17 (46.0%)	0.65 (0.33-1.30)	12 (32.4%)	0.58 (0.28-1.21)
No	228 (57.1%)	1.00 (ref.)	179 (44.9%)	1.00 (ref.)
<i>P^b</i>	0.2		0.1	
Pulmonary				
Yes	48 (72.7%)	2.23 (1.24-3.99)	42 (63.6%)	2.41 (1.39-4.17)
No	197 (53.2%)	1.00 (ref.)	149 (40.3%)	1.00 (ref.)
<i>P^c</i>	0.003		<0.001	
Cardiovascular				
Yes	71 (67.0%)	1.87 (1.17-2.98)	55 (51.9%)	1.56 (0.99-2.45)
No	174 (52.7%)	1.00 (ref.)	136 (41.2%)	1.00 (ref.)
<i>P^c</i>	0.01		0.05	
Peripheral vascular				
Yes	51 (69.9%)	1.94 (1.13-3.36)	42 (57.5%)	1.85 (1.10-3.10)
No	194 (53.4%)	1.00 (ref.)	109 (41.1%)	1.00 (ref.)
<i>P^c</i>	0.01		0.01	
Gastrointestinal				
Yes	67 (65.1%)	1.55 (0.97-2.49)	52 (50.5%)	1.32 (0.83-2.09)
No	178 (53.5%)	1.00 (ref.)	139 (41.7%)	1.00 (ref.)
<i>P^c</i>	0.04		0.1	
Musculoskeletal				
Yes	57 (66.3%)	1.63 (0.99-2.69)	48 (55.8%)	1.71 (1.05-2.79)
No	188 (53.7%)	1.00 (ref.)	143 (40.9%)	1.00 (ref.)
<i>P^c</i>	0.04		0.01	
Dermatologic				
Yes	22 (61.1%)	1.21 (0.60-2.45)	19 (52.8%)	1.36 (0.68-2.73)
No	223 (55.8%)	1.00 (ref.)	172 (43.0%)	1.00 (ref.)
<i>P^c</i>	0.5		0.3	

BADL, basic activity of daily living; IADL, instrumental activity of daily living.

^aDefined by the Brief Index of Lupus Damage.

^bAge-, sex-, and race-adjusted odds ratios.

^cBy χ^2 or Fisher's exact test, as appropriate.

Supplemental Table 5. Sequentially adjusted associations of any limitations in basic activities of daily living among individuals with systemic lupus erythematosus, by selected participant characteristics

Characteristics	OR (95% CI) for any limitation in BADLs ^a				
	Unadjusted	Adjusted for demographics	Adjusted for demographics + SES	Adjusted for demographics + SES + SLE factors	Adjusted for demographics + SES + SLE factors + comorbid conditions
Age category					
18-34	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
35-49	1.81 (1.05-3.12)	1.74 (1.01-3.02)	1.84 (1.05-3.26)	1.81 (0.94-3.48)	1.74 (0.90-3.35)
≥50	1.96 (1.15-3.35)	1.94 (1.13-3.34)	2.24 (1.27-3.95)	2.07 (1.07-3.99)	1.99 (1.03-3.86)
Sex					
Female	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Male	0.54 (0.26-1.12)	0.53 (0.25-1.11)	0.58 (0.27-1.26)	0.53 (0.21-1.34)	0.50 (0.19-1.29)
Race					
Black	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Other	0.38 (0.15-0.98)	0.40 (0.15-1.04)	0.54 (0.20-1.48)	0.49 (0.15-1.65)	0.54 (0.16-1.83)
White	0.52 (0.28-0.97)	0.49 (0.26-0.93)	0.79 (0.38-1.62)	0.63 (0.27-1.44)	0.67 (0.29-1.54)
Hispanic ethnicity					
Hispanic	0.51 (0.21-1.25)	0.79 (0.29-2.12)	0.89 (0.32-2.45)	0.34 (0.09-1.33)	0.35 (0.09-1.37)
Not Hispanic	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Level of education					
≤High school	2.12 (1.28-3.52)	2.11 (1.25-3.55)	1.30 (0.70-2.40)	1.59 (0.78-3.23)	1.56 (0.76-3.20)
Some college	2.56 (1.64-4.00)	2.51 (1.59-3.97)	2.02 (1.24-3.26)	1.54 (0.88-2.69)	1.53 (0.87-2.68)
≥College graduate	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Annual household income					
<\$20,000	2.94 (1.73-5.00)	2.88 (1.60-5.18)	2.41 (1.23-4.72)	1.52 (0.70-3.30)	1.58 (0.72-3.49)
\$20,000-59,999	2.14 (1.27-3.61)	2.09 (1.18-3.70)	1.78 (0.98-3.24)	1.77 (0.89-3.50)	1.96 (0.98-3.95)
≥60,000	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Receiving disability benefits					
Yes	3.36 (2.26-5.00)	3.10 (2.05-4.69)	2.54 (1.62-4.00)	2.38 (1.39-4.10)	2.34 (1.35-4.05)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
SLAQ score					
≥Median	7.44 (4.81-11.5)	7.35 (4.70-11.5)	7.06 (4.44-11.2)	6.72 (4.21-10.7)	6.66 (4.15-10.7)

OR (95% CI) for any limitation in BADLs ^a					
Characteristics	Unadjusted	Adjusted for demographics	Adjusted for demographics + SES	Adjusted for demographics + SES + SLE factors	Adjusted for demographics + SES + SLE factors + comorbid conditions
<Median	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
BILD score					
≥Median	1.90 (1.28-2.81)	1.73 (1.16-2.60)	1.67 (1.09-2.56)	1.28 (0.79-2.09)	0.99 (0.57-1.72)
<Median	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
On steroids					
Yes	1.13 (0.77-1.66)	1.24 (0.83-1.86)	1.24 (0.81-1.89)	1.21 (0.69-1.83)	1.21 (0.74-1.99)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Obesity					
Yes	1.45 (0.98-2.12)	1.22 (0.82-1.83)	1.10 (0.73-1.68)	1.08 (0.67-1.75)	1.06 (0.65-1.71)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Physical activity					
Low	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Moderate	0.42 (0.24-0.74)	0.48 (0.27-0.87)	0.48 (0.26-0.89)	0.62 (0.31-1.24)	0.66 (0.33-1.32)
High	0.23 (0.11-0.49)	0.25 (0.12-0.54)	0.28 (0.12-0.61)	0.28 (0.11-0.70)	0.30 (0.12-0.75)
Depression T-score					
≥Mean	2.84 (1.90-4.25)	2.98 (1.97-4.51)	3.14 (2.03-4.83)	2.08 (1.27-3.39)	2.12 (1.28-3.47)
<Mean	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
PSS score					
≥Mean	2.49 (1.66-3.72)	2.47 (1.64-3.74)	2.42 (1.55-3.76)	1.50 (0.91-2.50)	1.58 (0.94-2.65)
<Mean	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)

BADL, basic activity of daily living; BILD, Brief Index of Lupus Damage; BMI, body mass index; PSS, Perceived Stress Scale; SES, socioeconomic status; SLAQ, Systemic Lupus Activity Questionnaire; SLE, systemic lupus erythematosus. SLAQ median=12 ($n=188$ ≥median/ $n=229$ <median); BILD median=3 ($n=164$ ≥median/ $n=272$ <median); depression T-score mean=48.2 ($n=223$ ≥mean/ $n=197$ <mean); PSS score mean=16 ($n=204$ ≥mean/ $n=199$ <mean).

^aAdjustment variables were: demographics: age, sex, race; SES: education, income; SLE factors, SLAQ and BILD; comorbid conditions: cardiovascular, cerebrovascular, and pulmonary disease (extracted from BILD).

Supplemental Table 6. Unadjusted associations of any limitations in basic activities of daily living among subgroups of individuals with systemic lupus erythematosus, by selected participant characteristics

Characteristic	OR (95% CI) for any limitation in BADLs			
	Primary analysis	Among those not receiving disability benefits	Among Black participants	Among White participants
Age category				
18-34	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
35-49	1.81 (1.05-3.12)	1.61 (0.78-3.34)	1.45 (0.81-2.59)	3.82 (0.38-38.8)
≥50	1.96 (1.15-3.35)	1.23 (0.57-3.33)	1.78 (1.00-3.18)	3.71 (0.39-35.0)
Sex				
Female	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Male	0.54 (0.26-1.12)	0.40 (0.11-1.41)	0.51 (0.23-1.12)	0.71 (0.07-7.42)
Race				
Black	1.00 (ref.)	1.00 (ref.)	---	---
Other	0.38 (0.15-0.98)	0.79 (0.27-2.32)	---	---
White	0.52 (0.28-0.97)	0.60 (0.27-1.33)	---	---
Hispanic ethnicity				
Hispanic	0.51 (0.21-1.25)	0.73 (0.23-2.36)	0.28 (0.03-2.51)	0.96 (0.25-3.76)
Not Hispanic	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Level of education				
≤High school	2.12 (1.28-3.52)	3.08 (1.46-6.50)	1.67 (0.97-2.88)	5.00 (0.56-44.3)
Some college	2.56 (1.64-4.00)	2.32 (1.22-4.40)	2.24 (1.37-3.67)	5.63 (1.45-21.7)
≥College graduate	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Annual household income				
<\$20,000	2.94 (1.73-5.00)	2.92 (1.35-6.32)	2.61 (1.38-4.96)	1.93 (0.28-13.3)
\$20,000-59,999	2.14 (1.27-3.61)	1.61 (0.83-3.12)	1.75 (0.93-3.29)	3.87 (0.73-20.3)
≥60,000	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Receiving disability benefits				
Yes	3.36 (2.26-5.00)	---	3.16 (2.05-4.88)	8.04 (1.71-37.6)
No	1.00 (ref.)	---	1.00 (ref.)	1.00 (ref.)
SLAQ score				
≥Median	7.44 (4.81-11.5)	9.36 (4.90-17.9)	7.40 (4.60-11.9)	6.05 (1.54-23.7)
<Median	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
BILD score				
≥Median	1.90 (1.28-2.81)	1.09 (0.56-2.10)	1.72 (1.12-2.62)	4.34 (1.23-15.4)
<Median	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
On steroids				
Yes	1.13 (0.77-1.66)	0.88 (0.50-1.55)	0.95 (0.63-1.44)	2.03 (0.56-7.31)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Obesity				
Yes	1.45 (0.98-2.12)	1.39 (0.80-2.43)	1.30 (0.85-1.97)	0.96 (0.43-5.23)
No	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Physical activity				
Low	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
Moderate	0.42 (0.24-0.74)	0.35 (0.15-0.85)	0.40 (0.20-0.78)	0.87 (0.23-3.25)
High	0.23 (0.11-0.49)	0.43 (0.18-0.99)	0.33 (0.14-0.77)	0.12 (0.01-1.10)

Characteristic	OR (95% CI) for any limitation in BADLs			
	Primary analysis	Among those not receiving disability benefits	Among Black participants	Among White participants
Depression T-score				
≥Mean	2.84 (1.90-4.25)	3.53 (1.83-6.14)	3.04 (1.96-4.72)	3.78 (0.91-15.8)
<Mean	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
PSS score				
≥Mean	2.49 (1.66-3.72)	4.36 (2.35-8.09)	2.45 (1.57-3.82)	5.00 (1.36-18.3)
<Mean	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
BADL, basic activity of daily living. $P > 0.05$ for all interactions.				

Supplementary Table 7. Number of limitations in instrumental activities of daily living among individuals with systemic lupus erythematosus, by selected participant characteristics

Characteristic	No. (%) with IADL limitations:			
	0	1	2	3+
Age category				
18-34	48 (54.6%)	4 (4.6%)	10 (11.4%)	26 (29.6%)
35-49	70 (41.7%)	21 (12.5%)	13 (7.7%)	64 (38.1%)
≥50	73 (40.6%)	16 (8.9%)	19 (10.6%)	72 (40.0%)
<i>P^a</i>		0.1		
Sex				
Female	171 (42.8%)	39 (9.8%)	36 (9.0%)	154 (38.5%)
Male	20 (55.6%)	2 (5.6%)	6 (16.7%)	8 (22.2%)
<i>P^a</i>		0.1		
Race				
Black	153 (42.4%)	27 (7.5%)	32 (8.9%)	149 (41.3%)
Other	11 (45.8%)	5 (20.8%)	5 (20.8%)	3 (12.5%)
White	27 (52.9%)	9 (17.7%)	5 (9.8%)	10 (19.6%)
<i>P^a</i>		<0.001		
Hispanic ethnicity				
Hispanic	12 (50.0%)	6 (25.0%)	0 (0.0%)	6 (25.0%)
Not Hispanic	178 (43.3%)	35 (8.5%)	42 (10.0%)	156 (38.0%)
<i>P^a</i>		0.02		
Level of education				
≤High school	36 (35.3%)	9 (8.8%)	12 (11.8%)	45 (44.1%)
Some college	63 (38.4%)	13 (7.9%)	15 (9.2%)	73 (44.5%)
≥College graduate	92 (54.1%)	19 (11.2%)	15 (8.8%)	44 (25.9%)
<i>P^a</i>		0.006		
Annual household income				
<\$20,000	50 (33.6%)	7 (4.7%)	14 (9.4%)	78 (52.4%)
\$20,000-59,999	73 (43.5%)	17 (10.1%)	21 (12.5%)	57 (33.9%)
≥60,000	63 (59.4%)	15 (14.2%)	6 (5.7%)	22 (20.8%)
<i>P^a</i>		<0.001		
Receiving disability benefits				
Yes	53 (27.3%)	16 (8.3%)	24 (12.4%)	101 (52.1%)
No	136 (57.1%)	25 (10.5%)	18 (7.6%)	59 (24.8%)
<i>P^a</i>		<0.001		
SLAQ score				
≥Median	39 (20.7%)	21 (11.2%)	16 (8.5%)	112 (59.6%)
<Median	144 (62.9%)	19 (8.3%)	25 (10.9%)	41 (17.9%)
<i>P^a</i>		<0.001		
BILD score				
≥Median	57 (34.8%)	13 (7.9%)	15 (9.2%)	79 (48.2%)
<Median	134 (49.3%)	28 (10.3%)	27 (9.9%)	83 (30.5%)
<i>P^a</i>		0.003		
On steroids				
Yes	75 (40.5%)	19 (10.3%)	23 (12.4%)	68 (36.8%)
No	116 (46.4%)	22 (8.8%)	19 (7.6%)	93 (37.2%)
<i>P^a</i>		0.3		
Obesity				
Yes	82 (40.6%)	19 (9.4%)	20 (9.9%)	81 (40.1%)

Characteristic	No. (%) with IADL limitations:			
	0	1	2	3+
No	104 (46.6%)	21 (9.4%)	22 (9.9%)	76 (34.1%)
<i>P</i> ^a			0.6	
Physical activity				
Low	113 (35.7%)	32 (10.1%)	32 (10.1%)	140 (44.2%)
Moderate	39 (59.1%)	8 (12.1%)	8 (12.1%)	11 (16.7%)
High	34 (72.3%)	1 (2.1%)	2 (4.3%)	10 (21.3%)
<i>P</i> ^a			<0.001	
Depression T-score				
≥Mean	69 (30.9%)	19 (8.5%)	26 (11.7%)	109 (48.9%)
<Mean	116 (58.9%)	20 (10.2%)	14 (7.1%)	47 (23.9%)
<i>P</i> ^a			<0.001	
PSS score				
≥Mean	63 (30.9%)	20 (9.8%)	22 (10.8%)	99 (48.5%)
<Mean	109 (54.8%)	19 (9.6%)	19 (9.6%)	52 (26.1%)
<i>P</i> ^a			<0.001	

BILD, Brief Index of Lupus Damage; PSS, Perceived Stress Scale; SLAQ, Systemic Lupus Activity Questionnaire. SLAQ median=12 ($n=188 \geq \text{median}/n=229 < \text{median}$); BILD median=3 ($n=164 \geq \text{median}/n=272 < \text{median}$); depression T-score mean=48.2 ($n=223 \geq \text{mean}/n=197 < \text{mean}$); PSS score mean=16 ($n=204 \geq \text{mean}/n=199 < \text{mean}$).

^aBy χ^2 or Fisher's exact test, as appropriate.

Supplementary Table 8. Number of limitations in basic activities of daily living among individuals with SLE, by selected participant characteristics

Characteristic	No. (%) with BADL limitations:			
	0	1	2	3+
Age category				
18-34	60 (68.2%)	10 (11.4%)	5 (5.7%)	13 (14.8%)
35-49	91 (54.2%)	31 (18.5%)	9 (5.4%)	37 (22.0%)
≥50	94 (52.2%)	31 (17.2%)	19 (10.6%)	36 (20.0%)
<i>P</i> ^a		0.1		
Sex				
Female	25 (69.4%)	7 (19.4%)	2 (5.6%)	2 (5.6%)
Male	220 (55.0%)	65 (16.3%)	31 (7.8%)	84 (21.0%)
<i>P</i> ^a		0.1		
Race				
Black	192 (53.2%)	61 (16.9%)	26 (7.2%)	82 (22.7%)
Other	18 (75.0%)	3 (12.5%)	2 (8.3%)	1 (4.2%)
White	35 (68.6%)	8 (15.7%)	5 (9.8%)	3 (5.9%)
<i>P</i> ^a		0.02		
Hispanic ethnicity				
Hispanic	17 (70.8%)	3 (12.5%)	3 (12.5%)	1 (4.2%)
Not Hispanic	227 (55.2%)	69 (16.8%)	30 (7.3%)	85 (20.7%)
<i>P</i> ^a		0.1		
Level of education				
≤High school	52 (51.0%)	18 (17.7%)	6 (5.9%)	26 (25.5%)
Some college	76 (46.33%)	31 (18.9%)	16 (9.8%)	41 (25.0%)
≥College graduate	117 (68.9%)	23 (13.5%)	11 (6.5%)	19 (11.2%)
<i>P</i> ^a		0.001		
Annual household income				
<\$20,000	69 (46.3%)	23 (15.4%)	15 (10.1%)	42 (28.2%)
\$20,000-59,999	91 (54.2%)	36 (21.4%)	9 (5.4%)	32 (19.1%)
≥60,000	76 (71.7%)	13 (12.3%)	9 (8.5%)	8 (7.6%)
<i>P</i> ^a		<0.001		
Receiving disability benefits				
Yes	78 (40.2%)	42 (21.7%)	22 (11.3%)	52 (26.8%)
No	136 (57.1%)	25 (10.5%)	18 (7.6%)	59 (24.8%)
<i>P</i> ^a		<0.001		
SLAQ score				
≥Median	58 (30.9%)	38 (20.2%)	24 (12.8%)	68 (36.2%)
<Median	176 (76.9%)	32 (14.0%)	7 (3.1%)	14 (6.1%)
<i>P</i> ^a		<0.001		
BILD score				
≥Median	76 (46.3%)	30 (18.3%)	19 (11.6%)	39 (23.8%)
<Median	169 (62.1%)	42 (15.4%)	14 (5.2%)	47 (17.3%)
<i>P</i> ^a		0.005		
On steroids				
Yes	101 (54.6%)	34 (18.4%)	11 (6.0%)	39 (21.1%)
No	144 (57.6%)	38 (15.2%)	22 (8.8%)	46 (18.4%)
<i>P</i> ^a		0.5		
Obesity				
Yes	100 (51.0%)	34 (17.4%)	18 (9.2%)	44 (22.5%)

Characteristic	No. (%) with BADL limitations:			
	0	1	2	3+
No	139 (60.7%)	37 (16.2%)	15 (6.6%)	38 (16.6%)
<i>P</i> ^a	0.2			
Physical activity				
Low	156 (49.2%)	55 (17.4%)	27 (8.5%)	79 (24.9%)
Moderate	46 (69.7%)	12 (18.2%)	5 (7.6%)	3 (4.6%)
High	38 (80.9%)	5 (10.6%)	1 (2.1%)	3 (6.4%)
<i>P</i> ^a	<0.001			
Depression T-score				
≥Mean	98 (44.0%)	40 (17.9%)	23 (10.3%)	62 (27.8%)
<Mean	136 (69.0%)	31 (15.7%)	7 (3.6%)	23 (11.7%)
<i>P</i> ^a	<0.001			
PSS score				
≥Mean	89 (43.6%)	39 (19.1%)	17 (8.3%)	59 (28.9%)
<Mean	131 (65.8%)	31 (15.6%)	14 (7.0%)	23 (11.6%)
<i>P</i> ^a	<0.001			

BILD, Brief Index of Lupus Damage; PSS, Perceived Stress Scale; SLAQ, Systemic Lupus Activity Questionnaire. SLAQ median=12 (*n*=188 ≥median/*n*=229 <median); BILD median=3 (*n*=164 ≥median/*n*=272 <median); depression T-score mean=48.2 (*n*=223 ≥mean/*n*=197 <mean); PSS score mean=16 (*n*=204 ≥mean/*n*=199 <mean).

^aBy χ^2 or Fisher's exact test, as appropriate.

Supplementary Table 9. Severe limitations^a in instrumental and basic activities of daily living among individuals with systemic lupus erythematosus, by selected participant characteristics

Characteristic	Severe limitation in:			
	IADLs		BADLs	
	No. (%)	aOR ^b (95% CI)	No. (%)	aOR ^b (95% CI)
Age category				
18-34	10 (11.4%)	1.00 (ref.)	10 (11.4%)	1.00 (ref.)
35-49	26 (15.5%)	1.37 (0.63-3.01)	13 (7.7%)	0.59 (0.25-1.44)
≥50	35 (19.4%)	1.82 (0.85-3.89)	11 (6.1%)	0.48 (0.19-1.20)
<i>P</i> ^c	0.3		0.3	
Sex				
Female	66 (16.5%)	1.00 (ref.)	33 (8.3%)	1.00 (ref.)
Male	5 (13.9%)	0.80 (0.30-2.15)	1 (2.8%)	0.28 (0.04-2.16)
<i>P</i> ^c	0.8		0.3	
Race				
Black	63 (17.5%)	1.00 (ref.)	34 (9.4%)	1.00 (ref.)
Other	1 (4.2%)	0.22 (0.03-1.64)	0 (0.0%)	---
White	7 (13.7%)	0.73 (0.31-1.71)	0 (0.0%)	---
<i>P</i> ^c	0.2		0.01	
Hispanic ethnicity				
Hispanic	5 (20.8%)	2.42 (0.73-7.99)	1 (4.2%)	2.37 (0.25-22.2)
Not Hispanic	66 (16.1%)	1.00 (ref.)	33 (8.0%)	1.00 (ref.)
<i>P</i> ^c	0.6		0.7	
Level of education				
≤High school	15 (14.7%)	1.19 (0.57-2.46)	11 (10.8%)	2.41 (0.90-6.58)
Some college	35 (21.3%)	1.87 (1.03-3.40)	16 (9.8%)	2.18 (0.86-5.50)
≥College graduate	21 (12.4%)	1.00 (ref.)	7 (4.1%)	1.00 (ref.)
<i>P</i> ^c	0.08		0.07	
Annual household income				
<\$20,000	34 (22.8%)	1.85 (0.87-3.94)	19 (12.8%)	2.14 (0.69-6.63)
\$20,000-59,999	21 (12.5%)	0.90 (0.41-1.98)	11 (6.6%)	1.05 (0.32-3.46)
≥60,000	14 (13.2%)	1.00 (ref.)	4 (3.8%)	1.00 (ref.)
<i>P</i> ^c	0.03		0.02	
Receiving disability benefits				
Yes	48 (24.7%)	3.10 (1.76-5.48)	22 (11.3%)	2.20 (1.04-4.67)
No	22 (9.2%)	1.00 (ref.)	12 (5.0%)	1.00 (ref.)
<i>P</i> ^c	<0.001		0.02	
SLAQ score				
≥Median	54 (28.7%)	6.39 (3.35-12.2)	29 (15.4%)	10.0 (3.42-29.2)
<Median	13 (5.7%)	1.00 (ref.)	4 (1.8%)	1.00 (ref.)
<i>P</i> ^c	<0.001		<0.001	
BILD score				
≥Median	35 (21.3%)	1.64 (0.97-2.76)	15 (9.2%)	1.32 (0.64-2.73)
<Median	36 (13.2%)	1.00 (ref.)	19 (7.0%)	1.00 (ref.)
<i>P</i> ^c	0.03		0.001	
On steroids				
Yes	36 (14.4%)	1.45 (0.85-2.47)	18 (9.7%)	1.50 (0.71-3.15)
No	34 (18.4%)	1.00 (ref.)	15 (6.0%)	1.00 (ref.)
<i>P</i> ^c	0.2		0.1	

Characteristic	Severe limitation in:			
	IADLs		BADLs	
	No. (%)	aOR ^b (95% CI)	No. (%)	aOR ^b (95% CI)
Obesity				
Yes	37 (18.3%)	1.10 (0.65-1.87)	16 (7.9%)	0.86 (0.42-1.78)
No	34 (15.3%)	1.00 (ref.)	18 (8.1%)	1.00 (ref.)
<i>P^c</i>	0.4		>0.9	
Physical activity				
Low	65 (20.5%)	1.00 (ref.)	32 (10.1%)	1.00 (ref.)
Moderate	4 (6.1%)	0.24 (0.08-0.71)	1 (1.5%)	0.19 (0.03-1.45)
High	1 (2.1%)	0.08 (0.01-0.62)	1 (2.1%)	0.26 (0.03-2.02)
<i>P^c</i>	<0.001		0.02	
Depression T-score				
≥Mean	50 (22.4%)	3.03 (1.68-5.49)	22 (9.9%)	2.35 (1.05-5.28)
<Mean	17 (8.6%)	1.00 (ref.)	9 (4.6%)	1.00 (ref.)
<i>P^c</i>	<0.001		0.04	
PSS score				
≥Mean	46 (22.5%)	2.53 (1.43-4.49)	25 (12.3%)	4.16 (1.66-10.5)
<Mean	20 (10.1%)	1.00 (ref.)	6 (3.0%)	1.00 (ref.)
<i>P^c</i>	0.001		0.001	

BILD, Brief Index of Lupus Damage; PSS, Perceived Stress Scale; SLAQ, Systemic Lupus Activity Questionnaire. SLAQ median=12 ($n=188 \geq \text{median}/n=229 < \text{median}$); BILD median=3 ($n=164 \geq \text{median}/n=272 < \text{median}$); depression T-score mean=48.2 ($n=223 \geq \text{mean}/n=197 < \text{mean}$); PSS score mean=16 ($n=204 \geq \text{mean}/n=199 < \text{mean}$).

^aDefined as “a lot of difficulty” or “unable to do” any of the IADLs or BADLs.

^bAge-, sex-, and race-adjusted odds ratios (IADLs) and age- and sex-adjusted odds ratios (BADLs).

^cBy χ^2 or Fisher’s exact test, as appropriate.

Supplementary Table 10. Limitations in individual instrumental activities of daily living among individuals with SLE, by selected participant characteristics

Characteristic	Any limitation in:							
	Phone	Shopping	Food	Housekeeping	Laundry	Transportation	Medications	Finances
Age category								
18-34	0 (0.0%)	22 (25.0%)	20 (22.7%)	32 (36.4%)	28 (31.8%)	19 (21.6%)	13 (14.8%)	12 (13.6%)
35-49	6 (3.6%)	58 (34.5%)	46 (27.4%)	90 (53.6%)	62 (36.9%)	47 (28.0%)	26 (15.5%)	30 (17.9%)
≥50	5 (2.8%)	64 (35.6%)	54 (30.0%)	99 (55.0%)	72 (40.0%)	57 (31.7%)	21 (11.7%)	24 (13.3%)
<i>P^a</i>	<0.001	0.2	<0.001	<0.001	<0.001	0.2	0.6	<0.001
Sex								
Female	10 (2.5%)	135 (33.8%)	113 (28.3%)	208 (52.0%)	154 (38.5%)	117 (29.3%)	53 (13.3%)	59 (14.8%)
Male	1 (2.8%)	9 (25.0%)	7 (19.4%)	13 (36.1%)	8 (22.2%)	6 (16.7%)	7 (19.4%)	7 (19.4%)
<i>P^a</i>	>0.9	0.3	0.3	0.07	0.05	0.1	0.3	0.5
Race								
Black	11 (3.1%)	129 (35.7%)	108 (29.9%)	190 (52.6%)	146 (40.4%)	114 (31.6%)	56 (15.5%)	59 (16.3%)
Other	0 (0.0%)	3 (12.5%)	3 (12.5%)	22 (43.1%)	11 (21.6%)	2 (8.3%)	3 (5.9%)	4 (16.7%)
White	0 (0.0%)	12 (23.5%)	9 (17.7%)	9 (37.5%)	5 (20.8%)	7 (13.7%)	1 (4.2%)	3 (5.9%)
<i>P^a</i>	0.5	0.02	0.04	0.2	0.008	0.002	0.07	0.1
Hispanic ethnicity								
Hispanic	0 (0.0%)	6 (25.0%)	5 (20.8%)	10 (41.7%)	6 (25.0%)	5 (20.8%)	2 (8.3%)	2 (8.3%)
Not Hispanic	11 (2.7%)	138 (33.6%)	115 (28.0%)	211 (51.3%)	156 (38.0%)	118 (28.7%)	58 (14.1%)	64 (15.6%)
<i>P^a</i>	>0.9	0.5	0.4	0.4	0.3	0.4	0.6	0.6
Level of education								
≤High school	6 (5.9%)	42 (41.2%)	35 (34.3%)	102 (61.8%)	47 (46.1%)	35 (34.3%)	16 (15.7%)	18 (17.7%)
Some college	4 (2.4%)	63 (38.4%)	50 (30.5%)	90 (54.9%)	73 (44.5%)	52 (31.7%)	27 (16.5%)	33 (20.1%)
≥College graduate	1 (0.6%)	39 (22.9%)	35 (20.6%)	68 (40.0%)	42 (24.7%)	36 (21.2%)	17 (10.0%)	15 (8.8%)
<i>P^a</i>	0.03	0.001	0.03	0.001	<0.001	0.03	0.2	0.01
Annual household income								
<\$20,000	9 (6.0%)	71 (47.7%)	55 (36.9%)	92 (61.7%)	77 (51.7%)	59 (39.6%)	30 (20.1%)	32 (21.5%)
\$20,000-59,999	0 (0.0%)	45 (26.8%)	45 (26.8%)	82 (48.8%)	60 (35.7%)	41 (24.4%)	22 (13.1%)	24 (14.3%)
≥60,000	0 (0.0%)	22 (20.8%)	16 (15.1%)	40 (37.7%)	21 (19.8%)	18 (17.0%)	7 (6.6%)	7 (6.6%)
<i>P^a</i>	<0.001	<0.001	0.001	0.001	<0.001	<0.001	0.008	0.004
Receiving disability benefits								
Yes	6 (3.1%)	92 (47.4%)	44 (18.5%)	91 (38.2%)	61 (25.6%)	44 (18.5%)	23 (9.7%)	28 (11.8%)
No	4 (1.7%)	50 (21.0%)	74 (38.1%)	128 (66.0%)	100 (51.6%)	77 (39.7%)	36 (18.6%)	37 (19.1%)
<i>P^a</i>	0.3	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	0.04

Characteristic	Any limitation in:							
	Phone	Shopping	Food	Housekeeping	Laundry	Transportation	Medications	Finances
SLAQ score								
≥Median	9 (4.8%)	95 (50.5%)	86 (45.7%)	139 (73.9%)	112 (59.6%)	86 (45.7%)	47 (25.0%)	48 (25.5%)
<Median	1 (0.4%)	41 (17.8%)	30 (13.1%)	72 (31.4%)	41 (17.9%)	31 (13.5%)	11(4.8%)	16 (7.0%)
<i>P^a</i>	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BILD score								
≥Median	7 (2.6%)	67 (40.9%)	56 (34.2%)	101 (61.6%)	82 (30.2%)	57 (34.8%)	33 (20.1%)	32 (19.5%)
<Median	4 (2.4%)	77 (28.3%)	64 (23.5%)	120 (44.1%)	80 (48.8%)	66 (24.3%)	27 (9.9%)	34 (12.5%)
<i>P^a</i>	>0.9	0.007	0.02	<0.001	<0.001	0.02	0.003	0.05
On steroids								
Yes	6 (3.2%)	58 (31.4%)	55 (29.7%)	97 (52.4%)	72 (38.9%)	59 (31.9%)	32 (17.3%)	32 (17.3%)
No	5 (2.0%)	85 (34.0%)	64 (25.6%)	123 (49.2%)	89 (35.6%)	63 (25.2%)	27 (10.8%)	33 (13.2%)
<i>P^a</i>	0.5	0.6	0.3	0.5	0.5	0.1	0.05	0.2
Obesity								
Yes	7 (3.5%)	74 (36.6%)	61 (30.2%)	111 (55.0%)	81 (40.1%)	61 (30.2%)	25 (12.4%)	30 (14.9%)
No	3 (1.4%)	67 (30.0%)	57 (25.6%)	104 (46.6%)	76 (34.1%)	57 (25.6%)	33 (14.8%)	34 (15.3%)
<i>P^a</i>	0.2	0.2	0.3	0.09	0.2	0.3	0.5	>0.9
Physical activity								
Low	9 (2.8%)	129 (40.7%)	106 (33.4%)	186 (58.7%)	142 (44.8%)	106 (33.4%)	52 (16.4%)	51 (16.1%)
Moderate	1 (1.5%)	7 (10.6%)	7 (10.6%)	23 (34.1%)	12 (18.2%)	9 (13.6%)	5 (7.6%)	8 (12.1%)
High	1 (2.1%)	7 (14.9%)	6 (12.8%)	12 (25.5%)	8 (17.0%)	7 (14.9%)	2 (4.3%)	6 (12.8%)
<i>P^a</i>	>0.9	<0.001	<0.001	<0.001	<0.001	<0.001	0.02	0.7
Depression T-score								
≥Mean	7 (3.1%)	98 (44.0%)	80 (35.9%)	73 (37.1%)	44 (22.3%)	79 (35.4%)	46 (20.6%)	48 (21.5%)
<Mean	3 (1.5%)	42 (21.3%)	36 (18.3%)	140 (62.8%)	113 (50.7%)	39 (19.8%)	12 (6.1%)	16 (8.1%)
<i>P^a</i>	0.3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PSS score								
≥Mean	7 (2.0%)	93 (45.6%)	77 (37.8%)	130 (63.7%)	97 (47.6%)	75 (36.8%)	46 (22.6%)	50 (24.5%)
<Mean	4 (2.0%)	43 (21.6%)	37 (18.6%)	78 (39.2%)	54 (27.1%)	42 (21.1%)	12 (6.0%)	13 (6.5%)
<i>P^a</i>	0.5	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001

BILD, Brief Index of Lupus Damage; PSS, Perceived Stress Scale; SLAQ, Systemic Lupus Activity Questionnaire. SLAQ median=12 (*n*=188 ≥median/*n*=229 <median); BILD median=3 (*n*=164 ≥median/*n*=272 <median); depression T-score mean=48.2 (*n*=223 ≥mean/*n*=197 <mean); PSS score mean=16 (*n*=204 ≥mean/*n*=199 <mean).

^aBy χ^2 or Fisher's exact test, as appropriate.

Supplementary Table 11. Limitations in basic activities of daily living among individuals with SLE, by selected participant characteristics

Characteristic	No. (%) individuals with any limitation in:					
	Bathing	Dressing	Toileting	Transferring	Feeding	Continence
Age category						
18-34	13 (18.2%)	18 (20.5%)	7 (8.0%)	16 (18.2%)	3 (3.4%)	14 (15.9%)
35-49	46 (27.4%)	44 (26.2%)	26 (15.5%)	46 (27.4%)	7 (4.2%)	41 (24.4%)
≥50	48 (26.7%)	44 (24.4%)	20 (11.1%)	54 (30.0%)	2 (1.1%)	41 (22.8%)
<i>P^a</i>	0.2	0.6	0.2	0.1	0.2	<0.001
Sex						
Female	106 (26.5%)	102 (25.5%)	52 (13.0%)	111 (27.8%)	11 (2.8%)	91 (22.8%)
Male	4 (11.1%)	4 (11.1%)	1 (2.8%)	5 (13.9%)	1 (2.8%)	5 (13.9%)
<i>P^a</i>	0.04	0.07	0.1	0.08	>0.9	0.3
Race						
Black	102 (28.3%)	93 (25.8%)	51 (14.1%)	108 (29.9%)	12 (3.3%)	86 (23.8%)
Other	1 (4.2%)	3 (12.5%)	1 (4.2%)	5 (20.87%)	0 (0.0%)	2 (8.3%)
White	7 (13.7%)	10 (19.6%)	1 (2.0%)	3 (5.9%)	0 (0.0%)	8 (15.7%)
<i>P^a</i>	0.003	0.3	0.01	<0.001	0.5	0.1
Hispanic ethnicity						
Hispanic	3 (12.5%)	5 (20.8%)	1 (4.2%)	3 (12.5%)	0 (0.0%)	2 (8.3%)
Not Hispanic	107 (26.0%)	101 (24.6%)	52 (12.7%)	113 (27.5%)	12 (2.9%)	94 (22.9%)
<i>P^a</i>	0.2	0.8	0.3	0.2	>0.9	0.1
Level of education						
≤High school	29 (28.4%)	29 (28.4%)	17 (16.7%)	37 (36.3%)	6 (5.9%)	24 (23.5%)
Some college	54 (32.9%)	48 (29.3%)	22 (13.4%)	53 (32.3%)	3 (1.8%)	45 (27.4%)
≥College graduate	27 (15.9%)	29 (17.1%)	14 (8.2%)	26 (15.3%)	3 (1.8%)	27 (15.9%)
<i>P^a</i>	0.001	0.02	0.1	<0.001	0.1	0.04
Annual household income						
<\$20,000	55 (36.9%)	49 (32.9%)	29 (19.5%)	53 (35.6%)	8 (5.4%)	40 (26.9%)
\$20,000-59,999	38 (22.6%)	36 (21.4%)	19 (11.3%)	47 (28.0%)	2 (1.2%)	38 (22.6%)
≥60,000	14 (13.2%)	17 (16.0%)	4 (3.8%)	12 (11.3%)	2 (1.9%)	16 (15.1%)
<i>P^a</i>	<0.001	0.005	<0.001	<0.001	0.09	0.08
Receiving disability benefits						
Yes	39 (16.4%)	41 (17.2%)	21 (8.8%)	43 (18.1%)	4 (2.1%)	43 (18.1%)
No	70 (36.1%)	63 (32.5%)	31 (16.0%)	72 (37.1%)	8 (3.4%)	53 (27.3%)

Characteristic	No. (%) individuals with any limitation in:					
	Bathing	Dressing	Toileting	Transferring	Feeding	Continence
<i>P^a</i>	<0.001	<0.001	<0.001	<0.001	0.4	0.02
SLAQ score						
≥Median	89 (47.3%)	80 (42.6%)	44 (23.4%)	86 (45.7%)	11 (5.9%)	64 (34.0%)
<Median	16 (7.0%)	20 (8.7%)	8 (3.5%)	25 (10.9%)	1 (0.4%)	28 (12.2%)
<i>P^a</i>	<0.001	<0.001	<0.001	<0.001	0.002	<0.001
BILD score						
≥Median	52 (31.7%)	48 (29.3%)	22 (13.4%)	51 (31.1%)	5 (3.1%)	47 (28.7%)
<Median	58 (21.3%)	58 (21.3%)	31 (11.4%)	65 (23.9%)	7 (2.6%)	49 (18.0%)
<i>P^a</i>	0.02	0.06	0.5	0.1	0.8	0.009
On steroids						
Yes	48 (26.0%)	52 (28.1%)	23 (12.4%)	67 (26.8%)	7 (3.8%)	42 (22.7%)
No	61 (24.4%)	53 (21.2%)	29 (11.6%)	48 (26.0%)	4 (1.6%)	53 (21.2%)
<i>P^a</i>	0.7	0.1	0.8	0.8	0.2	0.7
Obesity						
Yes	55 (27.2%)	53 (26.2%)	30 (14.9%)	64 (31.7%)	9 (4.0%)	51 (25.3%)
No	50 (22.4%)	49 (22.0%)	22 (9.9%)	48 (21.5%)	3 (1.5%)	43 (19.3%)
<i>P^a</i>	0.3	0.4	0.1	0.02	0.1	0.1
Physical activity						
Low	98 (30.9%)	95 (30.0%)	48 (15.2%)	104 (32.8%)	12 (3.8%)	81 (25.6%)
Moderate	7 (10.6%)	7 (10.6%)	2 (3.0%)	7 (10.6%)	0 (0.0%)	9 (13.6%)
High	4 (8.5%)	3 (6.4%)	2 (4.3%)	4 (8.5%)	0 (0.0%)	6 (12.8%)
<i>P^a</i>	<0.001	<0.001	0.005	<0.001	0.2	0.03
Depression T-score						
≥Mean	80 (35.9%)	75 (33.6%)	33 (14.8%)	81 (36.3%)	6 (2.7%)	64 (28.7%)
<Mean	26 (13.2%)	28 (14.2%)	20 (10.2%)	34 (17.3%)	6 (3.1%)	30 (15.2%)
<i>P^a</i>	<0.001	<0.001	0.2	<0.001	>0.9	0.001
PSS score						
≥Mean	70 (34.3%)	68 (33.3%)	35 (17.2%)	75 (36.8%)	8 (3.9%)	57 (27.9%)
<Mean	34 (17.1%)	33 (16.6%)	15 (7.5%)	36 (18.1%)	1 (0.5%)	35 (17.6%)
<i>P^a</i>	<0.001	<0.001	0.003	<0.001	0.04	0.01

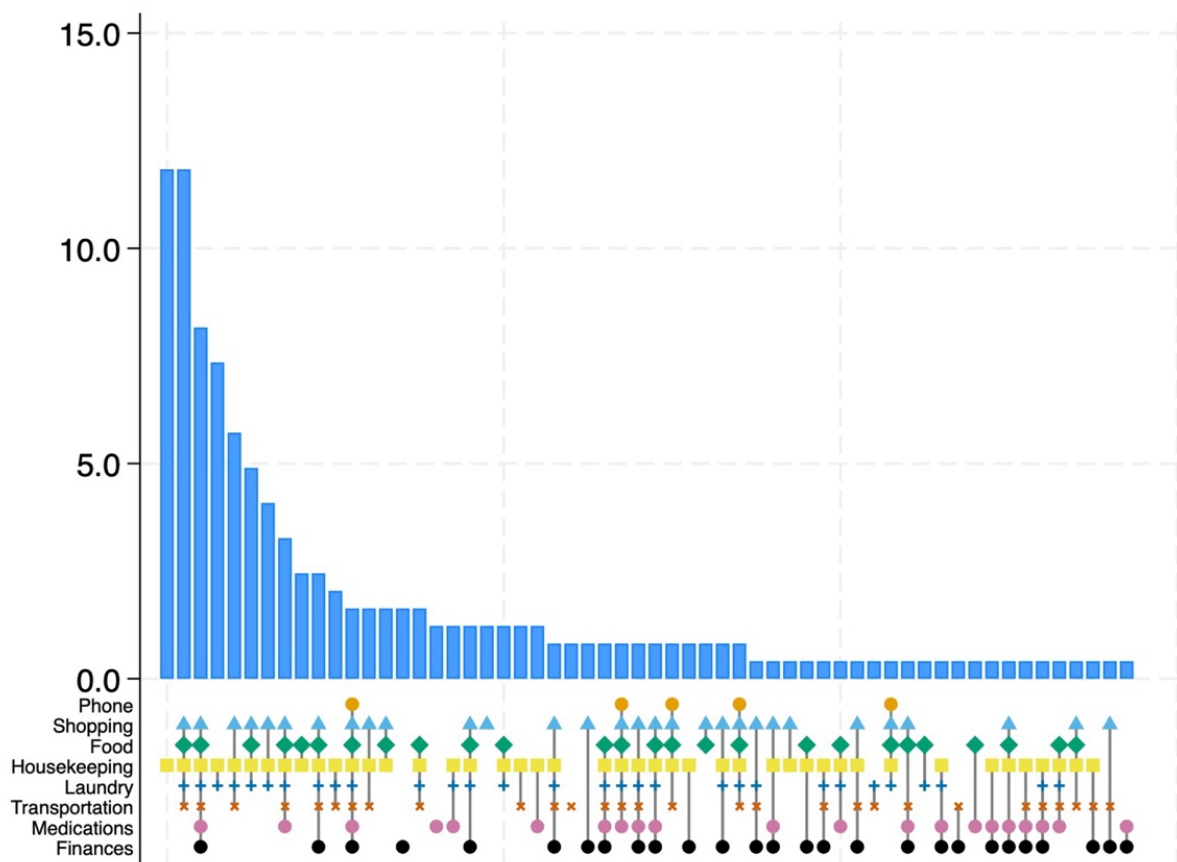
BILD, Brief Index of Lupus Damage; PSS, Perceived Stress Scale; SLAQ, Systemic Lupus Activity Questionnaire. SLAQ median=12 ($n=188$ ≥median/ $n=229$ <median); BILD median=3 ($n=164$ ≥median/ $n=272$ <median); depression T-score mean=48.2 ($n=223$ ≥mean/ $n=197$ <mean); PSS score mean=16 ($n=204$ ≥mean/ $n=199$ <mean).

^aBy χ^2 or Fisher's exact test, as appropriate.

Supplementary Figure 1. UpSet plots of limitations in individual domains of instrumental (A) and basic (B) activities of daily living among those with systemic lupus erythematosus, among those limitations in any domain.

Figure shows all combinations of any reported difficulty across the eight individual domains of instrumental activities of daily living (A) and six individual domains of basic activities of daily living (B) that were observed among our participants and the percentages of participants with those respective patterns. For example, 10.5% of those with any difficulty with basic activities of living has difficulty with bathing, dressing, toileting, and transferring (B, second bar from left).

A.



B.

