**Supplementary Table 1.** <u>Sensitivity analyses:</u> overall adjusted associations of <u>categorical</u> age at survey with summary health-related quality of life scores among systemic lupus erythematosus patients in the Georgians Organized Against Lupus cohort, September 2013-November 2014, with additional adjustments for other potential mediators, compared to primary models\*

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Primary model + renal involvement ( $N$ =630)-1.58 (-3.41,0.24)-1.10 (-3.57,1.38)Mental Component SummaryPrimary model (including BILD, SLAQ; $N$ =684)0.76 (-1.04,2.56)1.62 (-0.90,4.15)Primary model + BMI, depression, LIT ( $N$ =642)0.49 (-1.06,2.03)-0.13 (-2.29,2.02)Primary model + income ( $N$ =630)0.94 (-0.92,2.80)1.15 (-1.46,3.76)Primary model + renal involvement ( $N$ =633)1.30 (-0.62,3.22)2.14 (-0.46,4.75)
Mental Component Summary           Primary model (including BILD, SLAQ; N=684)         0.76 (-1.04,2.56)         1.62 (-0.90,4.15)           Primary model + BMI, depression, LIT (N=642)         0.49 (-1.06,2.03)         -0.13 (-2.29,2.02)           Primary model + income (N=630)         0.94 (-0.92,2.80)         1.15 (-1.46,3.76)           Primary model + renal involvement (N=633)         1.30 (-0.62,3.22)         2.14 (-0.46,4.75)
Primary model (including BILD, SLAQ; N=684)0.76 (-1.04,2.56)1.62 (-0.90,4.15)Primary model + BMI, depression, LIT (N=642)0.49 (-1.06,2.03)-0.13 (-2.29,2.02)Primary model + income (N=630)0.94 (-0.92,2.80)1.15 (-1.46,3.76)Primary model + renal involvement (N=633)1.30 (-0.62,3.22)2.14 (-0.46,4.75)
Primary model + BMI, depression, LIT (N=642)0.49 (-1.06,2.03)-0.13 (-2.29,2.02)Primary model + income (N=630)0.94 (-0.92,2.80)1.15 (-1.46,3.76)Primary model + renal involvement (N=633)1.30 (-0.62,3.22)2.14 (-0.46,4.75)
Primary model + income (N=630)0.94 (-0.92,2.80)1.15 (-1.46,3.76)Primary model + renal involvement (N=633)1.30 (-0.62,3.22)2.14 (-0.46,4.75)
Primary model + renal involvement (N=633)         1.30 (-0.62,3.22)         2.14 (-0.46,4.75)
Mental Health
Primary model (including BILD, SLAQ; <i>N</i> =684) 0.79 (-0.93,2.51) 1.77 (-0.64,4.18)
Primary model + BMI, depression, LIT ( $N$ =642)0.44 (-1.10,1.97)0.39 (-1.76,2.54)
Primary model + income $(N=630)$ $1.00 (-0.79, 2.80)$ $1.50 (-1.01, 4.02)$
Primary model + medile ( $N=633$ )1.00 ( $0.79,2.00$ )1.00 ( $1.01,1.02$ )Primary model + renal involvement ( $N=633$ )1.29 ( $-0.53,3.12$ )2.40 ( $-0.07,4.88$ )
Role Emotional         1.29 (0.00, 0.01)
Primary model (including BILD, SLAQ; <i>N</i> =681) -0.38 (-2.50,1.74) -0.33 (-3.30,2.64)
Primary model + BMI, depression, LIT ( $N$ =639)-0.31 (-2.22,1.60)-1.74 (-4.41,0.92)
Primary model + income $(N=628)$ $-0.50 (-2.72, 1.73)$ $-1.16 (-4.27, 1.95)$
Primary model + renal involvement ( $N$ =630) $-0.02$ (-2.24,2.21) $0.10$ (-2.92,3.12)
Social Functioning
Primary model (including BILD, SLAQ; <i>N</i> =680) -0.16 (-1.89,1.57) 0.04 (-2.37,2.46)
Primary model + BMI, depression, LIT ( $N$ =638)       -0.11 (-1.57, 1.35)       -1.40 (-3.44, 0.64)
Primary model + income $(N=626)$ $-0.29 (-2.07, 1.49)$ $-0.24 (-2.72, 2.24)$
Primary model + renal involvement ( $N$ =629) $-0.15$ ( $-1.97, 1.68$ ) $-0.16$ ( $-2.63, 2.32$ )
Vitality
Primary model (including BILD, SLAQ; <i>N</i> =682) -0.18 (-1.92,1.55) -0.84 (-3.27,1.59)
Primary model + BMI, depression, LIT ( $N$ =640) -0.65 (-2.23,0.94) -2.43 (-4.66,-0.21)
Primary model + income ( $N$ =628) 0.46 (-1.32,2.24) -0.53 (-3.02,1.96)
Primary model + renal involvement ( $N$ =631) -0.25 (-2.11,1.62) -0.65 (-3.18,1.89)

Complete case analysis was used (only individuals with complete information on the outcome and all covariates included). All subdomain scores are norm-based SF-12 scores. BILD, Brief Index of Lupus Damage; SLAQ, Systemic Lupus Activity Questionnaire; BMI, body mass index; LIT, Lupus Impact Tracker score. Renal involvement determined by American College of Rheumatology diagnostic criteria.\*Adjusted for sex, race (African-American vs. not African-American), employment, marital status, social support, lupus duration, BILD score, and SLAQ score.

**Supplementary Table 2.** <u>Sensitivity analyses:</u> overall associations of <u>continuous</u> age at survey with summary healthrelated quality of life scores among systemic lupus erythematosus patients in the Georgians Organized Against Lupus cohort, September 2013-November 2014

	Mean difference in score (95% CI),
Domain/model	per +10 years of age
Physical Component Summary (N=684)	
Crude	-1.47 (-2.09,-0.86)
Multivariable adjusted*	-1.37 (-2.07,-0.67)
Multivariable + BILD and SLAQ score	-1.15 (-1.79,-0.51)
Physical Functioning (N=684)	
Crude	-1.38 (-2.02,-0.73)
Multivariable adjusted*	-1.22 (-1.95,-0.50)
Multivariable + BILD and SLAQ score	-1.03 (-1.71,-0.35)
Role Physical (N=683)	
Crude	-0.84 (-1.47,-0.21)
Multivariable adjusted*	-0.73 (-1.43,-0.03)
Multivariable + BILD and SLAQ score	-0.53 (-1.17,0.11)
Bodily Pain (N=674)	
Crude	-0.88 (-1.54,-0.22)
Multivariable adjusted*	-0.83 (-1.57,-0.10)
Multivariable + BILD and SLAQ score	-0.62 (-1.27,0.04)
General Health (N=679)	
Crude	-0.71 (-1.33,-0.10)
Multivariable adjusted*	-0.68 (-1.40,0.03)
Multivariable + BILD and SLAQ score	-0.48 (-1.13,0.17)
Mental Component Summary (N=684)	
Crude	0.58 (-0.08,1.24)
Multivariable adjusted*	0.64 (-0.09,1.37)
Multivariable + BILD and SLAQ score	0.75 (0.07,1.42)
Mental Health (N=684)	
Crude	0.48 (-0.15,1.11)
Multivariable adjusted*	0.55 (-0.15,1.25)
Multivariable + BILD and SLAQ score	0.65 (0.01,1.30)
Role Emotional (N=681)	
Crude	-0.02 (-0.80,0.76)
Multivariable adjusted*	0.03 (-0.82,0.88)
Multivariable + BILD and SLAQ score	0.19 (-0.61,0.99)
Social Functioning (N=680)	
Crude	-0.30 (-0.94,0.34)
Multivariable adjusted*	-0.15 (-0.87,0.57)
Multivariable + BILD and SLAQ score	0.03 (-0.62,0.68)
Vitality (N=682)	
Crude	-0.26 (-0.85,0.33)
Multivariable adjusted*	-0.28 (-0.97,0.41)
Multivariable + BILD and SLAQ score	-0.16 (-0.82,0.49)

 Multivariable + BILD and SLAQ score
 -0.16 (-0.82,0.49)

 Complete case analysis was used (only individuals with complete information on the outcome and all covariates included). All subdomain scores are norm-based SF-12 scores. BILD, Brief Index of Lupus Damage; SLAQ, Systemic Lupus Activity Questionnaire.

\*Adjusted for sex, race (African-American vs. not African-American), employment, marital status, social support, and lupus duration.