

**Table S3.** Associations of changes in cytokine, autoantibody and IC levels between baseline and month 3 with treatment outcome.

Sustained outcomes	SRI-4		cSLEDAI-2K=0		cSLEDAI-2K=0 & prednisone eq. ≤7.5 mg/day		LLDAS	
Variables	+	-	+	-	+	-	+	-
	P value		P value		P value		P value	
Cytokines								
IFN-α2	0.176		0.113		0.179		0.074	
IL-6*	0.0; -0.8 (0.0; 0.0)	0.0; 1.8 (0.0; 0.0)	0.0; -1.0 (0.0; 0.0)	0.0; 1.1 (0.0; 0.0)	0.0; -1.1 (0.0; 0.0)	0.0; 0.9 (0.0; 0.0)	0.170	
	0.043		0.004		0.017			
IL-10	0.547		0.834		0.743		0.691	
IL-17A	0.295		0.660		0.868		0.096	
Autoantibodies								
Anti-dsDNA	0.165		0.843		0.855		0.692	
Anti-ribosomal P	0.959		-1.3 (-11.1; 0.0)	-1.0 (-18.0; -0.2)	0.103		0.099	
			0.037					
Anti-histone	0.929		0.925		0.524		0.591	
Anti-Sm	0.759		0.484		0.085		0.312	
Anti-U1RNP	-4.7 (-14.2; -0.3)	-0.2 (-3.1; 0.6)	0.157		0.289		0.406	
	0.033							
Anti-Sm-U1RNP	0.267		-0.1 (-5.5; 0.0)	-1.5 (-9.0; -0.2)	0.051		0.977	
			0.044					
Anti-Ro52/SSA	0.157		0.873		0.885		0.902	
Anti-Ro60/SSA	0.610		0.713		0.196		0.138	
Anti-La/SSB	0.251		0.439		0.596		0.160	
Circulating IC	0.074		0.775		0.398		0.516	

P values derived from comparisons of changes in cytokine (pg/mL), autoantibody (AU or IU/mL) and IC ( $\mu$ g Eq/mL) levels between baseline and month 3 ( $\Delta_{(\text{month 3} - \text{baseline})}$ ) between patients who attained and patients who did not attain sustained SRI-4, cSLEDAI-2K = 0, cSLEDAI-2K = 0 & prednisone equivalent dose  $\leq 7.5$  mg/day, and LLDAS, using Mann-Whitney *U* test. Distributions of variables are presented as medians (25<sup>th</sup> percentile; 75<sup>th</sup> percentile) in cases of significant P values. Light grey shadows indicate statistically significant associations between  $\Delta$ s and the respective outcome.

\* For IL-6, means are also provided to determine the direction and magnitude of the change due to zero median values.

cSLEDAI-2K: clinical Systemic Lupus Erythematosus Disease Activity Index 2000; dsDNA: double stranded DNA; IFN: interferon; IC: immune complex; IL: interleukin; LLDAS: Lupus Low Disease Activity State; PCNA: proliferating cell nuclear antigen; Sm: Smith.