

**Supplementary table 3: SLE Type 1/2 sample attributes**

	is.type.2	score.PSD	score.SLEDAI	anti.dsDNA	low.C3	ancestry.AA	ancestry.EA	is.female	PGA.type.1	PGA.type.2	sledai.arthriti	sledai.rash
Type1_115	0	4	6	1	0	1	0	1	0.5	0	4	0
Type1_165	0	0	6	1	2	1	0	1	2	0	0	0
Type1_168	0	3	10	1	0	1	0	1	0	0	0	0
Type1_170	0	0	8	1	2	0	0	1	1.5	0	0	2
Type1_177	0	3	10	1	2	1	0	1	1	0.25	0	0
Type1_188	0	8	18	1	0	1	0	1	2	1.5	4	2
Type1_251	0	5	8	1	2	0	1	0	1.5	0	0	2
Type1_258	0	0	16	1	2	1	0	1	0	0	0	0
Type1_275	0	3	7	0	2	0	1	1	1	1	4	0
Type2_008	1	11	0	1	0	1	0	1	0.5	1.5	0	0
Type2_013	1	10	0	0	0	0	1	1	0.5	1	0	0
Type2_028	1	16	0	0	0	0	1	1	0.2	1.5	0	0
Type2_114	1	21	0	0	0	1	0	1	0	1.5	0	0
Type2_230	1	12	0	1	0	1	0	1	0	2.5	0	0
Type2_261	1	10	0	1	0	0	1	1	0.5	2	0	0
Type2_267	1	11	0	1	0	0	1	1	0	1.5	0	0
Type2_276	1	19	0	0	0	1	0	1	0.5	2	0	0
Type2_285	1	10	0	1	0	1	0	1	0	1	0	0

sledai.ulcers	sledai.pleuris	sledai.leukop	sledai.hematu	sledai.pyuria	sledai.protein	fatigue.severit	cognitive	wake.unrefresh	headache.sym	cramps	depression
0	0	0	0	0	0	2	1	1	1	1	1
0	0	0	0	0	4	0	0	0	1	1	1
0	0	0	0	4	4	1	0	1	1	2	1
0	2	0	0	0	0	0	0	0	0	1	1
0	0	0	4	0	4	1	1	1	1	2	2
0	0	0	4	4	4	2	0	0	1	2	2
2	0	0	0	0	0	2	0	0	1	2	1
0	0	0	4	4	4	0	0	0	1	2	1
0	0	1	0	0	0	2	0	1	1	1	1
0	0	0	0	0	0	2	1	1	1	1	1
0	0	0	0	0	0	2	3	2	1	1	1
0	0	0	0	0	0	2	0	2	0	1	1
0	0	0	0	0	0	2	1	3	1	2	2
0	0	0	0	0	0	2	2	2	1	2	2
0	0	0	0	0	0	1	1	1	1	2	2
0	0	0	0	0	0	2	2	2	1	2	2
0	0	0	0	0	0	3	2	3	1	2	2
0	0	0	0	0	0	2	2	2	1	2	1

	areas.pain.WF	symptom.SSS	totalpain	month.flare	muscle.weak	muscle.pain	swell.joints	pain.stiff.joint	rash.malar	rash.sun	vasculitis	rash.oth
0	4	2	2	2	1	2	2	2	1	0	0	0
0	0	1	1	1	0	0	1	0	0	0	0	0
1	2	3	0	0	0	0	1	1	0	0	0	0
0	0	1	1	1	0	1	0	0	1	2	3	0
0	3	4	0	0	1	1	1	1	0	0	1	0
6	2	4	2	3	3	3	3	3	3	3	3	3
3	2	3	3	0	1	2	2	2	3	3	0	3
0	0	3	0	0	0	0	1	0	0	0	0	0
0	3	2	1	0	0	0	2	2	0	0	0	0
7	4	1	1	3	2	2	2	3	2	1	1	0
3	7	2	0	0	0	0	0	1	1	1	0	1
12	4	1	3	3	3	3	1	3	1	0	1	0
15	6	4	0	0	0	3	0	1	0	0	0	0
6	6	4	0	1	1	1	1	3	0	0	0	0
7	3	4	1	0	1	1	2	2	1	2	0	1
5	6	4	0	2	2	2	0	0	0	1	1	0
11	8	4	1	0	2	2	2	2	1	0	1	0
4	6	3	1	1	1	1	0	0	0	0	0	0

wt.loss	fatigue	fever	swollen.gland	alopecia	dry.eye.moutl	sores.mouth.r	raynaud	short.breath	pain.deep.bre	forget	feel.depressed	anxiety
1	2	2	0	2	2	1	0	1	1	1	1	1
0	0	0	0	0	0	1	0	0	0	0	0	0
0	1	1	0	0	1	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	0	2	0	0	0
0	0	0	0	0	1	0	1	0	0	1	0	1
0	2	1	1	0	0	1	0	0	0	2	2	2
0	1	0	0	3	2	1	0	0	0	0	0	0
0	0	0	0	0	1	0	0	1	0	0	0	0
1	2	0	0	0	0	0	2	0	0	0	0	1
1	2	1	1	2	2	0	3	2	1	1	1	0
0	1	0	0	0	0	0	2	1	0	2	0	0
1	2	0	0	0	1	1	0	1	0	1	0	0
0	2	0	0	0	3	2	0	0	0	2	1	1
0	1	0	0	0	3	0	1	0	0	3	3	3
0	2	0	0	0	1	1	0	1	0	1	1	2
0	1	0	0	0	1	1	1	0	0	1	2	2
0	3	0	0	0	1	0	0	0	0	3	1	1
0	2	0	0	0	0	0	0	1	1	2	0	3

headache	stroke	numb.tingle	belly.pain	edema	hypertension	upc	urine.foamy	urine.pain	rate.lupus	er.visit	little.interest	depressed	sleep.trouble	
0	0	0	0	0	0	1	0	0	0	4	0	1	1	2
0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
0	0	0	0	0	0	0	1	1	0	3	0	1	0	2
0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1	0	0	1	1	1	1	0	0	0	2	0	1	1	1
1	0	1	1	1	2	1	0	0	0	8	1	0	2	2
2	0	0	2	2	0	0	0	0	0	8	0	0	0	0
1	0	0	1	1	1	0	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	3	0	0	0	2
1	2	2	0	2	2	0	1	0	0	7	0	0	1	0
0	0	0	1	0	0	0	0	0	0	1	0	0	0	2
1	0	0	0	0	1	0	0	1	0	10	0	0	0	0
1	0	0	0	0	1	1	0	0	0	3	0	2	1	3
3	0	1	1	1	1	1	0	0	0	5	1	1	2	3
1	0	1	1	1	0	0	0	0	0	4	0	0	1	2
1	0	1	2	1	1	0	0	0	0	2	0	1	3	2
2	0	2	1	0	0	0	0	0	0	6	0	2	1	2
1	0	0	1	0	0	0	0	0	0	3	0	0	0	2

tired	poor.appeti	disappoint	concentrate	slow.fidget	understand	follow.direct	miss.dose	when.missed	percent.med	drug.HCQ	drug.cycloph
2	1	0	0	0	2	3	0	0	100	400	4
0	0	0	0	0	3	2	0	5	95	200	15
1	3	0	0	0	2	2	0	5	80	0	40
0	0	0	0	0	2	2	2	3	90	400	5
1	1	1	1	1	2	2	1	5	80	400	10
1	0	0	0	0	3	3	0	1	80	400	10
1	0	0	0	0	3	3	0	6	100	400	5
0	0	0	0	0	3	3	1	3	85	400	0
2	0	0	0	0	2	3	0	6	100	350	0
1	1	0	0	0	2	3	0	0	100	400	0
3	0	0	2	0	3	3	0	0	100	400	0
2	0	0	0	0	2	3	0	6	90	400	0
3	3	0	1	0	3	3	0	0	100	400	5
2	3	3	3	0	3	3	2	2	50	400	0
3	0	0	1	2	3	3	0	6	96	400	0
2	0	1	1	0	3	3	1	3	78	400	0
3	1	0	2	0	2	3	0	6	90	400	0
3	3	0	1	1	3	3	1	5	90	400	0

drug.Cytosan	drug.MMF	drug.Azathiop	drug.Methotr	drug.belimur	drug.Adalimu	drug.NSAIDs	drug.Leflunon	drug.ACE	drug.ARB	drug.Aspirin	drug.Amlodip
1	2	1	1	1	1	1	1	1	1	0	1
2	1	1	1	1	1	1	1	1	1	0	1
1	2	1	1	1	1	1	1	1	1	0	2
1	2	1	1	2	1	2	1	2	1	0	1
1	1	1	1	1	1	1	1	1	2	0	1
1	2	1	1	1	1	1	1	1	2	81	1
1	1	2	1	1	1	1	1	1	1	0	1
1	1	1	1	1	1	1	1	1	1	0	1
1	1	1	1	1	1	2	1	1	1	0	1
1	2	1	1	1	1	1	1	1	2	0	1
1	1	1	1	1	2	1	2	1	1	0	1
1	1	1	2	1	1	2	1	1	1	81	1
1	1	1	1	1	1	1	1	1	1	0	1
1	1	1	1	1	1	2	1	2	1	0	2
1	1	1	1	1	1	2	1	1	1	325	1
1	1	1	1	1	1	1	1	1	1	81	1
1	1	1	1	1	1	1	2	1	2	0	1
1	1	1	1	1	1	1	1	1	1	0	1

drug.HCTZ	drug.furosemi	drug.Metoprc	drug.carvedil	drug.Chlortha	drug.Gabapen	drug.pregabal	drug.cyclober	drug.amitript	drug.duloxeti	drug.venlafaxi	drug.Milnacip
1	1	2	1	1	2	1	1	1	1	1	1
1	2	1	1	1	1	1	1	1	1	1	1
1	1	1	2	1	1	1	1	2	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	2	1	1	1	1	1	1	2	1	1	1
1	1	2	1	1	1	2	1	2	1	2	1
1	1	1	1	1	1	1	2	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	2	1	1	2	1	2	1	2	1	1
1	1	1	1	1	1	1	1	2	1	1	1
1	1	1	1	1	2	1	1	1	2	1	1
1	1	1	1	1	2	1	1	1	2	1	1
2	1	1	1	1	1	2	1	1	1	1	2
1	1	1	1	1	1	1	2	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	2	2	1	1	1	1	2	2	1
1	1	1	1	1	1	1	1	1	1	1	1



drug.bupropi	drug.Tramad	anti.Smith	anti.RNP	anti.La	score.eular	drug.prednisc	age	
1	1	1	1	1	0	36	4	49
1	1	1	1	1	0	36	15	32
1	1	0	0	0	1	35	40	30
1	1	0	1	1	0	35	5	27
1	1	1	1	1	0	44	10	30
1	1	1	1	1	0	43	10	38
1	1	1	0	0	0	30	5	27
1	2	1	1	1	0	26	0	58
1	1	0	0	0	0	12	0	41
1	1	0	1	1	0	28	0	47
1	1	0	0	0	0	12	0	43
1	2	0	0	0	0	18	0	62
1	1	0	0	0	0	10	5	47
1	1	0	0	0	0	25	0	55
1	1	0	0	0	0	17	0	46
1	1	0	0	0	0	18	0	37
2	1	0	0	0	1	12	0	44
1	1	1	1	1	1	32	0	33