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Table SI. LME model selections in Study 2.

Selected Model	Included Effects					AIC
	Fixed effects			Random effect		
	Group	Week	Group:Week	Participant ID		
DLQI				✓		664.6
		✓				690.4
		✓		✓		666.1
	✓					686.4
	✓			✓		654.0
	✓	✓				687.4
	✓	✓		✓		655.5
	✓	✓	✓			686.8
	✓	✓	✓	✓		648.9
EASI				✓		784.4
		✓				954.5
		✓		✓		774.4
	✓					942.0
	✓			✓		782.4
	✓	✓				945.0
	✓	✓	✓	✓		772.4
	✓	✓	✓	✓		948.9
	✓	✓	✓	✓		774.6
POEM				✓		737.7
		✓				793.8
	✓	✓		✓		732.5
	✓					794.9
	✓			✓		739.5
	✓	✓				793.3
	✓	✓		✓		734.3

	✓	✓	✓		798.9
	✓	✓	✓	✓	738.2
NRS				✓	492.7
		✓			536.3
	✓	✓		✓	490.1
	✓				536.7
	✓			✓	494.7
	✓	✓			538.2
	✓	✓		✓	492.1
	✓	✓	✓		541.8
	✓	✓	✓	✓	495.0
	✓			✓	534.2
PSQI		✓			592.6
		✓		✓	536.0
	✓				594.4
	✓			✓	536.0
	✓	✓			595.9
	✓	✓		✓	537.8
	✓	✓	✓		599.9
	✓	✓	✓	✓	541.7

Abbreviations: AIC, Akaike's information criterion

Table SII. LME model outputs in Study 2.

Characteristic	DLQI			EASI			POEM			NRS			PSQI		
	Beta	95% CI ¹	p-value	Beta	95% CI ¹	p-value	Beta	95% CI ¹	p-value	Beta	95% CI ¹	p-value	Beta	95% CI ¹	p-value
Intercept	7.85	6.022, 9.678	<0.001	18.168	12.710, 23.626	<0.001	13.9	11.856, 15.944	<0.001	5.125	4.426, 5.824	<0.00 1	6.075	5.269, 6.881	<0.001
Group															
Control	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Intervention	1.25	-1.335, 3.835	0.3	-7.553	15.197, 0.090	0.053									
Week															
0 week	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4 week	-0.4	-2.055, 1.255	0.6	-1.413	-2.797, -0.028	0.046	-	-3.284, -0.166	0.031	-	-0.769, 0.419	0.6	0.175		
8 week	-0.5	-2.155, 1.155	0.5	-2.686	-4.071, -1.302	<0.001	-	-3.884, -0.766	0.004	-	-1.332, -0.143	0.016	0.738		
Group * Week															
Intervention * 4	-2.2	-4.541, 0.141	0.065												
Intervention * 8	-3.85	-6.191, -1.509	0.002												

Abbreviation: CI, confidence interval

Table SIII. Change in total sleep time, sleep efficiency, scratching time, and percentage of total scratching time in Study 2.

Week	mean ± SD							
	1 (n=19)	2 (n=18)	3 (n=19)	4 (n=19)	5 (n=19)	6 (n=18)	7 (n=19)	8 (n=19)
Total Sleep Time[hrs.]	5.76 ± 1.64	5.83 ± 1.02	5.41 ± 1.07	6.06 ± 1.89	5.83 ± 1.32	5.95 ± 1.84	5.93 ± 1.52	5.77 ± 1.76
Sleep Efficiency[%]	92.3 ± 5.92	91.3 ± 6.66	91.1 ± 6.93	89.4 ± 6.62	90.5 ± 6.52	90.2 ± 6.97	91.1 ± 6.56	90.4 ± 7.26
Scratching Time[Sec]	81.1 ± 74.4	93.2 ± 78.1	104.5 ± 96.2	124.5 ± 92.9	124.9 ± 94.2	121.1 ± 112.2	122.6 ± 130.2	112.5 ± 106.8
%Total Scratching Time[%]	0.34 ± 0.28	0.4 ± 0.3	0.46 ± 0.39	0.47 ± 0.31	0.46 ± 0.33	0.51 ± 0.46	0.51 ± 0.49	0.45 ± 0.38

Scores are mean±SD per week. n is number of participants measured at least once per week. No significant difference was observed.