

**Supplementary Table S1.** Thermal detection thresholds among juvenile idiopathic arthritis (JIA) and controls\*

	n	Cold detection threshold		Warm detection threshold	
		Decrease below 32°C (95% CI)		Increase above 32°C (95% CI)	
		Upper limb	Lower limb	Upper limb	Lower limb
Control	109	1.2 (1.1, 1.3)	2.0 (1.9, 2.2)	2.1 (2.0, 2.2)	4.1 (3.8, 4.4)
JIA (total group) <sup>a</sup>	96	1.2 (1.1, 1.3) <i>p = 0.6</i>	2.0 (1.8, 2.2) <i>p = 0.6</i>	2.2 (2.1, 2.4) <i>p = 0.2</i>	4.6 (4.2, 4.9) <i>p = 0.03</i>
JIA					
Remission off med. <sup>b</sup>	43	1.3 (1.1, 1.4) <i>p = 0.3</i>	2.1 (1.8, 2.4) <i>p = 0.8</i>	2.1 (1.9, 2.3) <i>p = 1.0</i>	4.7 (4.0, 5.3) <i>p = 0.09</i>
Inactive disease <sup>b</sup>	20	1.2 (1.0, 1.3) <i>p = 0.9</i>	1.9 (1.6, 2.2) <i>p = 0.4</i>	2.3 (2.0, 2.7) <i>p = 0.2</i>	4.4 (3.7, 5.1) <i>p = 0.5</i>
Active disease <sup>b</sup>	33	1.1 (1.0, 1.3) <i>p = 0.7</i>	1.9 (1.6, 2.2) <i>p = 0.5</i>	2.3 (2.1, 2.5) <i>p = 0.09</i>	4.6 (4.2, 5.0) <i>p = 0.04</i>

\*Multilevel modelling with re-transformed logarithm predicted values as difference in temperature from baseline (32°C) with 95% CI, adjusted for age and sex.

°C = degrees Celsius; CI = confidence interval; *p* = *p*-value comparing controls with JIA disease group (either total group or according to disease status).

<sup>a</sup>Separate multilevel model of the total JIA cohort.

<sup>b</sup>Disease status according to the definition by Wallace et al.; Remission off med. = Remission off medication for ≥12 months. Inactive disease = inactive disease on medication for less than 6 months or inactive disease off medication for less than 12 months or remission on medication (inactive disease on medication for more than 6 months). Active disease = flare or continuous active disease.