Supplementary Table S1. Muscle tone (expressed in Hz) in patients with axSpA and control subjects, stratified for body segment.

Variable	Patients n=27	Controls n=27	<i>p</i> -value
Trunk			
Average	14.3 (13.2–15.3)	14.2 (12.9–14.8)	0.53
Dominant	14.4 (12.9–16.0)	14.4 (12.8–15.1)	0.70
Non-dominant	14.2 (12.9–15.2)	14.1 (12.9–14.9)	0.72
Upper limb			
Average	16.7 (15.7–17.6)	16.3 (15.9–17.4)	0.66
Dominant	16.6 (15.8–18.1)	16.4 (15.7–17.5)	0.42
Non-dominant	16.2 (15.7–17.5)	16.8 (15.9–17.7)	0.61
Lower limb			
Average	16.7 (15.1–17.5)	16.3 (15.6–18.0)	0.92
Dominant	16.8 (14.9–18.9)	16.5 (15.6–18.1)	0.28
Non-dominant	16.0 (14.9–17.2)	16.2 (15.1–17.6)	0.67
Total	48.6 (44.9–50.1)	46.7 (45.0–49.3)	0.45

Supplementary Table S2. Muscle decrement (inverse of elasticity) in patients with axSpA and control subjects, stratified for body segment.

Variable	Patients n=27	Controls n=27	<i>p</i> -value
 Trunk			
Average	1.1 (1.0–1.9)	1.1 (0.9–1.3)	0.40
Dominant	1.1(1.1-1.5)	1.1 (0.9–1.3)	0.38
Non-dominant	1.1 (1.0–1.4)	1.1 (0.9–1.3)	0.57
Upper limb			
Average	1.0(0.9-1.1)	1.1 (0.9–1.1)	0.38
Dominant	1.0 (0.9–0.9)	1.0 (1.0–1.1)	0.14
Non-dominant	1.0 (0.9–1.2)	1.1 (0.9–1.2)	0.91
Lower limb			
Average	1.2 (1.1–1.6)	1.3 (1.2–1.4)	0.45
Dominant	1.2 (1.1–1.5)	1.2 (1.1–1.5)	0.94
Non-dominant	1.2 (1.1–1.5)	1.4 (1.1–1.5)	0.49
Total	3.4 (3.0–3.9)	3.4 (3.3–3.7)	0.96

Values are presented as median (25^{th} - 75^{th} percentile). "Average" refers to the mean of right and left sides of each segment, while "dominant" and "non-dominant" sides refer to the handedness of individuals.