

**Table S1.** Summary of the Stepwise Regression Analyses to determine Predictors of cervical muscles frequency, stiffness and decrement.

	Predictor Outcome	B	SE B	95% CI	B	t	P
Frequency	Step 1 (adjusted R <sup>2</sup> = .298)						
	Age	.074	.015	.045, .104	.556	5.100	<.001
	Step 2 (adjusted R <sup>2</sup> = .385)						
	Age	.102	.016	.069, .135	.764	6.212	<.001
	Tragus-wall	-.102	.034	-.170, -.035	-.373	-3.030	.004
	Step 3 (adjusted R <sup>2</sup> = .422)						
	Age	.099	.016	.067, .131	.743	6.208	<.001
Stiffness	Tragus-wall	-.136	.036	-.209, -.063	-.497	-3.753	<.001
	Lateral flexion	-.040	.019	-.077, -.003	-.254	-2.159	.035
	Step 1 (adjusted R <sup>2</sup> = .264)						
Stiffness	Age	2.048	.435	1.176, 2.919	.525	4.703	<.001
	Step 2 (adjusted R <sup>2</sup> = .328)						
	Age	2.824	.514	1.794, 3.853	.725	5.491	<.001
Decrement	Cervical rotation	.692	.270	.152, 1.233	.338	2.565	.013
	Step 1 (adjusted R <sup>2</sup> = .423)						
	Age	.015	.002	.010, .019	.658	6.646	<.001
	Step 2 (adjusted R <sup>2</sup> = .523)						
	Age	.017	.002	.013, .022	.783	8.131	<.001
	BASDAI	.036	.010	.056, .016	.350	3.637	.001
	Step 3 (adjusted R <sup>2</sup> = .615)						
Decrement	Age	.013	.002	.009, .018	.595	5.970	<.001
	BASDAI	.048	.009	.067, .029	.463	2.729	<.001
	BASMI	.050	.013	.024, .076	.399	3.831	<.001

SE: standard error; CI: confidence interval.

**Table S2.** Summary of the Stepwise Regression Analyses to determine Predictors of lumbar muscles frequency, stiffness, decrement, relaxation and creep.

	Predictor Outcome	B	SE B	95% CI	B	t	P
Frequency	Step 1 (adjusted R <sup>2</sup> = .504)						
	Intermalleolar distance	.064	.027	.010, .118	.244	2.367	.021
	Step 2 (adjusted R <sup>2</sup> = .578)						
	Intermalleolar distance	.092	.026	.039, .144	.351	3.504	.001
	Schöber test	-1.149	.345	-1.841, -.457	-.504	-3.328	.002
	Step 3 (adjusted R <sup>2</sup> = .643)						
	Intermalleolar distance	.112	.025	.063, .162	.429	4.556	<.001
	Schöber test	-1.672	.218	-2.109, -1.235	-.734	-7.666	<.001
	Age	.168	.036	.008, .031	.403	4.605	<.001
	Step 4 (adjusted R <sup>2</sup> = .679)						
	Intermalleolar distance	.126	.024	.078, .174	.482	5.278	<.001
	Schöber test	-1.679	.207	-2.093, -1.265	-.736	-8.123	<.001
	Age	.143	.036	.071, .214	.343	3.994	<.001
	BASDAI	.429	.158	.113, -.745	.221	2.719	.009
	Step 5 (adjusted R <sup>2</sup> = .697)						
	Intermalleolar distance	.127	.023	.080, .173	.485	5.460	<.001
	Schöber test	-1.643	.202	-2.047, -1.239	-.721	-8.146	<.001
	Age	.144	.035	.074, .214	.346	4.146	<.001
	BASDAI	.439	.153	.131, .746	.226	2.857	.006
	Evolution time	-.088	.043	-.175, -.002	-.148	-2.049	.045
Stiffness	Step 1 (adjusted R <sup>2</sup> = .524)						
	Schöber test	-29.509	11.824	-53.187, -5.832	-.380	-2.496	.015
	Step 2 (adjusted R <sup>2</sup> = .557)						
	Schöber test	-38.394	12.055	-62.543, -14.245	-.495	-3.185	.002
	Intermalleolar distance	2.090	.915	.257, 3.923	.235	2.284	.026
	Step 3 (adjusted R <sup>2</sup> = .604)						
	Schöber test	-42.738	11.497	-65.778, -19.698	-.551	-3.717	<.001
	Intermalleolar distance	2.609	.885	.837, 4.382	.293	2.950	.005
	Age	3.986	1.434	1.113, 6.859	.281	2.780	.007
	Step 4 (adjusted R <sup>2</sup> = .630)						
	Schöber test	-49.516	7.924	-65.395, -33.637	-.638	-6.249	<.001
	Intermalleolar distance	3.333	.893	1.543, 5.123	.374	3.732	<.001
	Age	3.785	1.336	1.108, 6.461	.267	2.834	.006
	BASFI	15.631	6.227	3.151, 28.111	.269	2.510	0.015

Decrement	Step 1 (adjusted R <sup>2</sup> = .050)						
	Age	.008	.004	.000, .015	.255	2.007	.049
	Step 2 (adjusted R <sup>2</sup> = .153)						
	Age	.012	.004	.004, .020	.412	3.124	.004
	Schöber test	.062	.022	.018, .105	.377	2.858	.006
	Step 3 (adjusted R <sup>2</sup> = .285)						
	Age	.018	.004	.010, .025	.589	4.468	<.001
	Schöber test	.082	.021	.040, .123	.499	3.951	<.001
	Height	.019	.006	.008, .031	.410	3.396	.001
	Step 4 (adjusted R <sup>2</sup> = .367)						
	Age	.016	.004	.009, .024	.545	4.362	<.001
	Schöber test	.112	.022	.068, .156	.685	5.060	<.001
	Height	.022	.005	.011, .033	.474	4.091	<.001
	Intermalleolar distance	-.007	.002	-.012, -.002	-.367	-2.870	.006
	Step 5 (adjusted R <sup>2</sup> = .470)						
	Age	.023	.004	.015, .031	.770	5.831	<.001
	Schöber test	.099	.021	.058, .141	.606	4.814	<.001
	Height	.027	.005	.017, .038	.580	5.249	<.001
	Intermalleolar distance	-.010	.002	-.015, -.005	-.523	-4.163	<.001
	Cervical rotation	.008	.002	.003, .012	.483	3.409	.001
Relaxation	Step 1 (adjusted R <sup>2</sup> = .367)						
	Schöber test	1.313	.221	.870, 1.756	.614	5.930	<.001
	Step 2 (adjusted R <sup>2</sup> = .403)						
	Schöber test	1.008	.258	.492, 1.525	.472	3.908	<.001
	BASFI	-.413	.193	-.800, -.026	-.258	-2.135	.037
	Step 3 (adjusted R <sup>2</sup> = .534)						
Creep	Schöber test	1.163	.245	.672, 1.654	.544	4.745	<.001
	BASFI	-1.092	.248	-1.590, -.594	-.682	-4.398	<.001
	Intermalleolar distance	-.069	.028	-.126, -.013	-.283	-2.473	.017
	Step 1 (adjusted R <sup>2</sup> = .355)						
	Schöber test	.070	.012	.046, .094	.605	5.781	<.001
	Step 2 (adjusted R <sup>2</sup> = .398)						
	Schöber test	.052	.014	.024, .080	.452	3.726	<.001
	BASFI	-.024	.011	-.045, -.003	-.277	-2.283	.026
	Step 3 (adjusted R <sup>2</sup> = .497)						
	Schöber test	.068	.014	.041, .096	.591	5.017	<.001
	BASFI	-.036	.010	-.057, -.016	-.418	-3.544	.001
	Intermalleolar distance	-.005	.002	-.009, .002	-.406	-3.492	.001

SE: standard error; CI: confidence interval.