

Supplementary table 1

A: Multiple univariate regression analysis of active and passive range of motion against functional assessments

		Active ROM				Passive ROM				
		MPJ	MPJ	IPJ	IPJ		MPJ	MPJ	IPJ	IPJ
		extension	flexion	extension	flexion		extension	flexion	extension	flexion
Kapandji index										
	β	-0.014	0.027	-0.029	0.094		0.164	0.007	0.107	0.012
	SE	0.099	0.110	0.056	0.050		0.097	0.125	0.048	0.064
	standardized β	-0.047	0.053	-0.085	0.460		0.518	0.013	0.396	0.047
	t value	-0.143	0.241	-0.525	1.891		1.699	0.054	2.237	0.183
	Sig.	0.887	0.810	0.602	0.065		0.096	0.957	0.030	0.856
Thumb opposition test										
	β	-0.001	0.000	-0.005	0.042		0.032	0.048	0.012	0.008
	SE	0.041	0.046	0.023	0.021		0.040	0.052	0.020	0.027
	standardized β	-0.008	0.002	-0.036	0.519		0.254	0.232	0.113	0.084
	t value	-0.022	0.007	-0.209	2.008		0.783	0.915	0.601	0.313
	Sig.	0.983	0.994	0.836	0.051		0.437	0.365	0.551	0.756
Pinch strength										
	β	-0.011	-0.005	-0.007	0.014		0.023	0.003	0.012	-0.011
	SE	0.012	0.014	0.007	0.006		0.012	0.015	0.006	0.008

standardized β	-0.339	-0.092	-0.177	0.627		0.667	0.059	0.391	-0.402
t value	-0.933	-0.382	-0.992	2.326		1.976	0.225	1.994	-1.418
Sig.	0.356	0.704	0.009	0.024		0.054	0.823	0.052	0.163

B: Multivariate regression analysis

	Active ROM		Passive ROM		R square	SE
	IPJ flexion		MPJ extension	IPJ extension		
Kapandji index						
β	0.102		0.145	0.096		
SE	0.023		0.041	0.035		
Standardized β	0.499		0.458	0.355	0.433	7.711
t value	4.412		3.509	2.725		
Sig.	0.000		0.001	0.009		
Thumb opposition test						
β	0.041		0.026	0.011		
SE	0.010		0.018	0.015		
Standardized β	0.508		0.211	0.103	0.324	3.308

Pinch strength	t value	4.115		1.482	0.725	
	Sig.	0.000		0.145	0.472	
	β	0.009		0.009	0.010	
	SE	0.003		0.005	0.005	
	Standardized β	0.380		0.263	0.322	0.206 1.103
	t value	2.838		1.705	2.088	
	Sig.	0.007		0.094	0.042	

ROM: range of motion, MPJ: metacarpophalangeal joint, IPJ: interphalangeal joint, β: coefficient, SE: standard error, Sig: significance
The numbers expressed in **Bold** exhibit high value of coefficient and statistical significance.