

Appendix 2: correlation between hand width, hand span, hand length and BMI with nerve the diameter

Measurement location	Cases	Hand width	Hand span	Hand length	BMI
Thumb (radial branch)	17	rs = 0.3274 P = 0.1996	rs = 0.3470 P = 0.1723	r = 0.155 P = 0.5525	r = 0.4418 P = 0.0758
Flexor zone 1					
Thumb (ulnar branch)	17	rs = 0.1448 P = 0.5793	rs = 0.2601 P = 0.3133	r = -0.3108 P = 0.2247	r = 0.3283 P = 0.1983
Flexor zone 1					
Index finger (radial branch)	17	rs = 0.1931 P = 0.4577	rs = 0.1704 P = 0.5133	rs = 0.0934 P = 0.7214	rs = 0.3298 P = 0.196
Flexor zone 1					
Index finger (ulnar branch)	17	rs = 0.054 P = 0.8369	rs = -0.078 P = 0.7662	rs = -0.4883 P = 0.0467	rs = 0.1677 P = 0.52
Flexor zone 1					
Middle finger (radial branch)	17	rs = 0.3354 P = 0.1882	rs = 0.3606 P = 0.1551	r = -0.0915 P = 0.7268	r = 0.3959 P = 0.1157
Flexor zone 1					
Middle finger (ulnar branch)	17	rs = -0.011 P = 0.9664	rs = -0.1816 P = 0.4855	r = -0.0544 P = 0.8356	r = 0.118 P = 0.6519
Flexor zone 1					
Ring finger (radial branch)	17	rs = 0.1817 P = 0.4852	rs = 0.1535 P = 0.5565	rs = -0.2405 P = 0.3525	rs = 0.3453 P = 0.1747
Flexor zone 1					
Ring finger (ulnar branch)	17	rs = 0.2693 P = 0.2959	rs = -0.0374 P = 0.8866	r = -0.3346 P = 0.1893	r = 0.2821 P = 0.2727
Flexor zone 1					
Small finger (radial branch)	17	rs = 0.2429 P = 0.3474	rs = 0.0712 P = 0.7861	r = 0.0711 P = 0.7862	r = 0.2796 P = 0.277
Flexor zone 1					
Small finger (ulnar branch)	17	rs = 0.3679 P = 0.1463	rs = 0.2219 P = 0.3919	rs = 0.0172 P = 0.9479	rs = 0.3769 P = 0.1359
Flexor zone 1					

Measurement location	Cases	Hand width		Hand span		Hand length	BMI
Thumb (radial branch)	18	rs =	0.2423	rs =	0.3709	r = -0.1326	r = 0.4917
Flexor zone 2		P =	0.3328	P =	0.1297	P = 0.6	P = 0.0382
Thumb (ulnar branch)	18	rs =	0.3158	rs =	0.4150	rs = -0.189	rs = 0.2906
Flexor zone 2		P =	0.2018	P =	0.0868	P = 0.4525	P = 0.242
Index finger (radial branch)	18	rs =	0.1829	rs =	0.2965	r = 0.1332	r = 0.1449
Flexor zone 2		P =	0.4677	P =	0.2322	P = 0.5983	P = 0.5663
Index finger (ulnar branch)	18	rs =	0.1818	rs =	0.1074	r = -0.2867	r = 0.3969
Flexor zone 2		P =	0.4703	P =	0.6713	P = 0.2488	P = 0.1029
Middle finger (radial branch)	18	rs =	0.2386	rs =	0.1575	r = -0.1267	r = 0.227
Flexor zone 2		P =	0.3403	P =	0.5324	P = 0.6164	P = 0.365
Middle finger (ulnar branch)	18	rs =	0.2873	rs =	0.2672	r = -0.2688	r = 0.3318
Flexor zone 2		P =	0.2476	P =	0.2838	P = 0.2808	P = 0.1786
Ring finger (radial branch)	18	rs =	0.1705	rs =	0.0677	r = -0.401	r = 0.1365
Flexor zone 2		P =	0.4989	P =	0.7896	P = 0.0991	P = 0.5891
Ring finger (ulnar branch)	18	rs =	0.076	rs =	-0.1329	r = -0.4111	r = 0.0178
Flexor zone 2		P =	0.7644	P =	0.5991	P = 0.0901	P = 0.9441
Small finger (radial branch)	18	rs =	0.1618	rs =	0.0222	r = -0.263	r = 0.2395
Flexor zone 2		P =	0.5211	P =	0.9302	P = 0.2917	P = 0.3384
Small finger (ulnar branch)	18	rs =	0.2214	rs =	0.3218	r = -0.188	r = 0.2647
Flexor zone 2		P =	0.3772	P =	0.1929	P = 0.4551	P = 0.2885

Measurement location	Cases	Hand width		Hand span		Hand length		BMI
Thumb (radial branch)	15	rs =	0.6276	rs =	0.3760	r =	0.3159	r = 0.2924
		P =	0.0123	P =	0.1672	P =	0.2514	P = 0.2902
Flexor zone 3 - Common digital nerve								
Thumb (ulnar branch)	15	rs =	0.602	rs =	0.4213	r =	0.0715	r = 0.3973
		P =	0.0176	P =	0.1178	P =	0.8	P = 0.1426
Flexor zone 3 - Common digital nerve								
Index finger	18	rs =	0.4439	rs =	0.4186	r =	-0.0689	r = 0.4945
		P =	0.065	P =	0.0838	P =	0.786	P = 0.0369
Flexor zone 3 - Common digital nerve								
Index and Middle finger	18	rs =	0.2459	rs =	0.0088	r =	-0.3268	r = 0.2397
		P =	0.3254	P =	0.9724	P =	0.1857	P = 0.3381
Flexor zone 3 - Common digital nerve								
Middle and Ring finger	18	rs =	0.4006	rs =	0.3221	r =	-0.1083	r = 0.4466
		P =	0.0995	P =	0.1923	P =	0.6687	P = 0.0632
Flexor zone 3 - Common digital nerve								
Ring and Small finger	18	rs =	0.6081	rs =	0.3175	r =	0.0755	r = 0.6152
		P =	0.0074	P =	0.1992	P =	0.766	P = 0.0066
Flexor zone 3 - Common digital nerve								
Small finger	17	rs =	0.132	rs =	0.2149	r =	-0.0552	r = 0.3015
		P =	0.6136	P =	0.4076	P =	0.8334	P = 0.2396
Flexor zone 3 - Common digital nerve								
Reccurent median nerve	18	rs =	0.1715	rs =	-0.2500	r =	-0.1448	r = -0.0472
		P =	0.4963	P =	0.3171	P =	0.5666	P = 0.8526
Flexor zone 3 - Common digital nerve								

Measurement location	Cases	Hand width		Hand span		Hand length		BMI
Median nerve proximal to TCL	18	rs =	0.2499	rs =	-0.0392	r =	-0.3405	r = 0.0428
Flexor zone 4		P =	0.3173	P =	0.8772	P =	0.1667	P = 0.8659
Ulnar nerve proximal to TCL	18	rs =	0.381	rs =	0.5348	r =	0.1521	r = 0.3575
Flexor zone 4		P =	0.1188	P =	0.0222	P =	0.5467	P = 0.1453
Median nerve distal to TCL	18	rs =	0.4522	rs =	0.2664	rs =	0.4386	rs = 0.3359
Flexor zone 4		P =	0.0595	P =	0.2853	P =	0.0686	P = 0.1729
Median nerve at the wrist crease	18	rs =	-0.0527	rs =	-0.3252	r =	-0.3444	r = -0.0178
Flexor zone 5		P =	0.8356	P =	0.1878	P =	0.1616	P = 0.9441
Ulnar nerve at the wrist crease	17	rs =	0.2509	rs =	0.3816	r =	-0.1406	r = 0.3713
Flexor zone 5		P =	0.3313	P =	0.1307	P =	0.5903	P = 0.1423

r = Pearson correlation coefficient

rs = Spearman's Rank correlation coefficient