

## Wilcoxon tests for EC by joint L by Sex, Loc, LD young

### Wilcoxon test for EC for shoulder by Sex

**Table 1:** Wilcoxon test for EC shoulder Sex

statistic	p.value	method	alternati ve
151.5	0.03471 018	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 2:** Effect size for shoulder by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	F	M	0.31652 68	18	27	moderat e

### Wilcoxon test for EC for elbow by Sex

**Table 3:** Wilcoxon test for EC by Sex

statistic	p.value	method	alternati ve
8.5	0.00432 9993	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 4:** Effect size for elbow by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
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.y.	group1	group2	effsize	n1	n2	magnitu de
EC	F	M	0.63123 66	6	15	large

### Wilcoxon test for EC for forearm by Sex

**Table 5:** Wilcoxon test for EC forearm Sex

statistic	p.value	method	alternati ve
363.5	0.60390 03	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 6:** Effect size for forearm by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	F	M	0.06918 617	22	36	small

### Wilcoxon test for EC for hip by Sex

**Table 7:** Wilcoxon test for EC hip by Sex

statistic	p.value	method	alternati ve
402	0.10415 98	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 8:** Effect size for hip by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	F	M	0.19933 72	25	42	small

### Wilcoxon test for EC for knee by Sex

**Table 9:** Wilcoxon test for EC knee Sex

statistic	p.value	method	alternati ve
19.5	0.38952 12	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 10:** Effect size for knee by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	F	M	0.22946 29	5	11	small

### Wilcoxon test for EC for foot by Sex

**Table 11:** Wilcoxon test for EC foot by Sex

statistic	p.value	method	alternati ve
40	0.15637 57	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 12:** Effect size for knee by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	F	M	0.28977 28	7	18	small

### Wilcoxon test for EC for shoulder by Location

**Table 13:** Wilcoxon test for EC shoulder Location

statistic	p.value	method	alternati ve
115	0.18630 73	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 14:** Effect size for shoulder by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	Cemeter y	Church	0.19912 82	36	9	small

### Wilcoxon\_Loc test for EC for elbow by Location

**Table 15:** Wilcoxon test for EC by Location

statistic	p.value	method	alternati ve
20.5	0.23590 87	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 16:** Effect size for elbow by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	F	M	0.63123 66	6	15	large

### Wilcoxon test for EC for forearm by Location

**Table 17:** Wilcoxon test for EC forearm Location

statistic	p.value	method	alternati ve
171	0.15371 39	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 18:** Effect size for forearm by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	Cemeter y	Church	0.18868 05	48	10	small

### Wilcoxon test for EC for hip by Location

**Table 19:** Wilcoxon test for EC hip by Location

statistic	p.value	method	alternati ve
322	0.25501 85	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 20:** Effect size for hip by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	Cemeter y	Church	0.14020 79	58	9	small

### Wilcoxon test for EC for knee by Location

**Table 21:** Wilcoxon test for EC knee Location

statistic	p.value	method	alternati ve
34.5	0.21939 93	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 22:** Effect size for knee by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	Cemeter y	Church	0.32238 33	12	4	moderat e

### Wilcoxon test for EC for foot by Location

**Table 23:** Wilcoxon test for EC foot by Location

statistic	p.value	method	alternati ve
78	0.05182 993	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 24:** Effect size for foot by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	Cemeter y	Church	0.39597 98	20	5	moderat e

### Wilcoxon test for EC for shoulder by Layer\_dual

**Table 25:** Wilcoxon test for EC shoulder Layer\_dual

statistic	p.value	method	alternati ve
187	0.19777 41	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 26:** Effect size for shoulder by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	1	2	0.19372 13	18	27	small

### Wilcoxon test for EC for elbow by Layer\_dual

**Table 27:** Wilcoxon test for EC by Layer\_dual

statistic	p.value	method	alternati ve
53	0.97114 42	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 28:** Effect size for elbow by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	1	2	0.01578 733	9	12	small

### Wilcoxon test for EC for forearm by Layer\_dual

**Table 29:** Wilcoxon test for EC forearm Layer\_dual

statistic	p.value	method	alternati ve
467.5	0.38663 87	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 30:** Effect size for forearm by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	1	2	0.11471 87	25	33	small

### Wilcoxon test for EC for hip by Layer\_dual

**Table 31:** Wilcoxon test for EC hip by Layer\_dual

statistic	p.value	method	alternati ve
752.5	0.01255 204	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 32:** Effect size for hip by Age



.y.	group1	group2	effsize	n1	n2	magnitu de
EC	1	2	0.30574 93	31	36	moderat e

### Wilcoxon test for EC for knee by Layer\_dual

**Table 33:** Wilcoxon test for EC knee Layer\_dual

statistic	p.value	method	alternati ve
39.5	0.42139 83	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 34:** Effect size for knee by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	1	2	0.21439 94	7	9	small

### Wilcoxon test for EC

**Table 35:** Wilcoxon test for EC foot by Layer\_dual

statistic	p.value	method	alternati ve
78.5	0.34470 42	Wilcoxo n rank sum test with continuit y correctio n	two.side d

**Table 36:** Effect size for foot by Age

.y.	group1	group2	effsize	n1	n2	magnitu de
EC	1	2	0.19528 16	18	7	small

**Table 37:** Wilcoxon tests for the EC scores of all functional areas by Sex, Location and Layer\_dual

statistic	p.value	method	alternati ve
151.5	0.03471 0180	Wilcoxo n rank sum test with continuit y correctio n	two.side d
8.5	0.00432 9993	Wilcoxo n rank sum test with continuit y correctio n	two.side d
363.5	0.60390 0283	Wilcoxo n rank sum test with continuit y correctio n	two.side d
402.0	0.10415 9841	Wilcoxo n rank sum test with continuit y correctio n	two.side d

statistic	p.value	method	alternati ve
19.5	0.38952 1237	Wilcoxo n rank sum test with continuit y correctio n	two.side d
40.0	0.15637 5722	Wilcoxo n rank sum test with continuit y correctio n	two.side d
115.0	0.18630 7269	Wilcoxo n rank sum test with continuit y correctio n	two.side d
20.5	0.23590 8724	Wilcoxo n rank sum test with continuit y correctio n	two.side d
171.0	0.15371 3950	Wilcoxo n rank sum test with continuit y correctio n	two.side d

statistic	p.value	method	alternati ve
322.0	0.25501 8513	Wilcoxo n rank sum test with continuit y correctio n	two.side d
34.5	0.21939 9343	Wilcoxo n rank sum test with continuit y correctio n	two.side d
78.0	0.05182 9927	Wilcoxo n rank sum test with continuit y correctio n	two.side d
187.0	0.19777 4083	Wilcoxo n rank sum test with continuit y correctio n	two.side d
53.0	0.97114 4160	Wilcoxo n rank sum test with continuit y correctio n	two.side d

statistic	p.value	method	alternati ve
467.5	0.38663 8723	Wilcoxo n rank sum test with continuit y correctio n	two.side d
752.5	0.01255 2043	Wilcoxo n rank sum test with continuit y correctio n	two.side d
39.5	0.42139 8264	Wilcoxo n rank sum test with continuit y correctio n	two.side d
78.5	0.34470 4222	Wilcoxo n rank sum test with continuit y correctio n	two.side d