

Appendix F: Tukey HSD Pairwise Post-Hoc comparisons

Table S2. *Tukey HSD Post-Hoc comparisons for Rolling with the one-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	-20.641667	-31.232864	-10.0504691	0.0000067
Pre-Surgical – Control	-32.57619	-44.766081	-20.3863003	<0.0000001
1-Year Post-Surgical – Control	-23.572222	-36.345687	-10.7987574	0.0000208
Pre-Surgical – Non-Surgical	-11.934524	-23.6987	-0.1703479	0.0451122
1-Year Post-Surgical – Non-Surgical	-2.930556	-15.29841	9.4372986	0.9634943
1-Year Post-Surgical – Pre-Surgical	9.003968	-4.757709	22.7656459	0.3637555

Table S3. *Tukey HSD Post-Hoc comparisons for Rolling with the two-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	-20.641667	-30.91486	-10.368474	0.0000104
Pre-Surgical – Control	-19.433333	-33.62779	-5.238878	0.0033678
2-Years Post-Surgical – Control	-15.766667	-29.96112	-1.572211	0.0237990
Pre-Surgical – Non-Surgical	1.208333	-12.64404	15.060704	0.9956240
2-Years Post-Surgical – Non-Surgical	4.875	-8.97737	18.72737	0.7884340
2-Years Post-Surgical – Pre-Surgical	3.666667	-13.29895	20.632286	0.9401273

Table S4. *Tukey HSD Post-Hoc comparisons for Crawling with the one-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	19.869444	6.657736	33.08115	0.0006916
Pre-Surgical – Control	22.585714	7.379759	37.79167	0.0008277
1-Year Post-Surgical – Control	21.383333	5.449414	37.31725	0.0031459
Pre-Surgical – Non-Surgical	2.71627	-11.958639	17.39118	0.9852465
1-Year Post-Surgical – Non-Surgical	1.513889	-13.914062	16.94184	0.9987201
1-Year Post-Surgical – Pre-Surgical	-1.202381	-18.36902	15.96426	0.9996617

Table S5. *Tukey HSD Post-Hoc comparisons for Crawling with the two-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	19.869444	6.119124	33.619765	0.0018017
Pre-Surgical – Control	28.8	9.801202	47.798798	0.0009874
2-Years Post-Surgical – Control	9.3	-9.698798	28.298798	0.5699321
Pre-Surgical – Non-Surgical	8.930556	-9.610373	27.471484	0.5829334
2-Years Post-Surgical – Non-Surgical	-10.569444	-29.110373	7.971484	0.4394677
2-Years Post-Surgical – Pre-Surgical	-19.5	-42.207907	3.207907	0.1167053

Table S6. *Post-Hoc comparisons for Knee-Walking with the one-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	23.755556	13.071419	34.43969	0.0000003
Pre-Surgical – Control	24.7	12.403142	36.99686	0.0000035
1-Year Post-Surgical – Control	33.088889	20.203335	45.97444	<0.00000010
Pre-Surgical – Non-Surgical	0.944444	-10.922964	12.81185	0.9994392
1-Year Post-Surgical – Non-Surgical	9.333333	-3.14305	21.80972	0.2339396
1-Year Post-Surgical – Pre-Surgical	8.388889	-5.493549	22.27133	0.4454398

Table S7. *Post-Hoc comparisons for Knee-Walking with the two-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	23.755556	13.820476	33.690635	0.0000002
Pre-Surgical – Control	17.866667	4.139382	31.593951	0.0057697
2-Years Post-Surgical – Control	61.658333	47.931049	75.385618	<0.0000001
Pre-Surgical – Non-Surgical	-5.888889	-19.285347	7.507569	0.6524837
2-Years Post-Surgical – Non-Surgical	37.902778	24.50632	51.299236	<0.0000001
2-Years Post-Surgical – Pre-Surgical	43.791667	27.384423	60.19891	<0.0000001

Table S8. *Post-Hoc comparisons for Half-Kneeling with the one-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	32.063889	25.148287	38.979491	<0.0000001
Pre-Surgical – Control	44.52619	36.56671	52.485671	<0.0000001
1-Year Post-Surgical – Control	59.216667	50.876137	67.557197	<0.0000001
Pre-Surgical – Non-Surgical	12.462302	4.780794	20.143809	0.0002139
1-Year Post-Surgical – Non-Surgical	27.152778	19.077094	35.228461	<0.0000001
1-Year Post-Surgical – Pre-Surgical	14.690476	5.704685	23.676267	0.0001885

Table S9. *Post-Hoc comparisons for Half-Kneeling with the two-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	32.063889	24.238165	39.88961	<0.0000001
Pre-Surgical – Control	39.008333	28.195542	49.82112	<0.0000001
2-Years Post-Surgical – Control	55.425	44.612208	66.23779	<0.0000001
Pre-Surgical – Non-Surgical	6.944444	-3.60776	17.49665	0.3123971
2-Years Post-Surgical – Non-Surgical	23.361111	12.808907	33.91332	0.0000014
2-Years Post-Surgical – Pre-Surgical	16.416667	3.492909	29.34042	0.0073580

Table S10. *Post-Hoc comparisons for Half-Kneeling to Standing with the one-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	31.111111	23.220299	39.001923	<0.0000001
Pre-Surgical – Control	56.416667	47.334773	65.498561	<0.0000001
1-Year Post-Surgical – Control	51.388889	41.872211	60.905566	<0.0000001
Pre-Surgical – Non-Surgical	25.305556	16.540834	34.070277	<0.0000001
1-Year Post-Surgical – Non-Surgical	20.277778	11.063295	29.492261	0.0000004
1-Year Post-Surgical – Pre-Surgical	-5.027778	-15.280708	5.225153	0.646686

Table S11. *Post-Hoc comparisons for Half-Kneeling to Standing with the two-year follow-up group*

Comparison	Diff	Lower CI	Upper CI	p adj
Non-Surgical – Control	31.111111	22.593646	39.62858	<0.0000001
Pre-Surgical – Control	38.125	26.35643	49.89357	<0.0000001
2-Years Post-Surgical – Control	49.958333	38.189763	61.7269	<0.0000001
Pre-Surgical – Non-Surgical	7.013889	-4.471059	18.49884	0.3781487
2-Years Post-Surgical – Non-Surgical	18.847222	7.362274	30.33217	0.0003288
2-Years Post-Surgical – Pre-Surgical	11.833333	-2.232798	25.89946	0.1285168