

Appendix

TABLE E-1 Posterior Muscle-Splitting Approach Data*

Data	Case															Mean†
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Age (yr)	49	42	38	45	56	61	48	50	59	68	36	48	50	53	43	50 ± 9
Injured side	L	R	L	R	R	L	L	R	R	L	R	L	R	R	R	
Dominant side	N	Y	Y	Y	Y	N	N	Y	Y	N	Y	N	Y	Y	Y	
Workers' Compensation	Y	Y	N	Y	N	N	N	Y	N	Y	Y	N	N	Y	Y	
Follow-up (yr)	0.8	1.4	1.4	1.3	1.0	1.2	1.8	1.4	1.0	1.3	1.5	1.1	2.0	2.1	1.0	1.4 ± 0.4
Pain	0	0	2	0	0	0	1	1	0	0	0	1	0	0	0	0.3 ± 0.6
DASH (points)	1.7	2.5	3.3	1.8	0.0	1.7	5.2	33.3	1.7	0.0	7.5	0.0	0.8	0.8	0.0	4.0 ± 8.4
DASH Work	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	3.3 ± 8.8
Healing	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Heterotopic bone	N	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	
Heterogeneity	Low	Low	Low	Low	Low	High	High	Low	Low	High	Low	Low	High	Low	Low	
60° pronation (%)	79.2	85.0	81.4	98.4	123.7	93.4	103.2	93.2	84.6	97.9	95.2	79.4	94.0	91.2	109.9	94.0 ± 12.0
0° neutral (%)	81.0	95.1	94.0	94.1	93.5	78.8	99.1	88.7	100.5	92.3	84.1	100.7	93.0	88.2	99.8	92.2 ± 6.9
60° supination (%)	80.7	102.7	95.9	76.3	58.0	44.0	95.2	85.0	65.9	80.2	82.0	103.9	83.0	74.0	93.2	81.3 ± 16.4
Time from injury to surgery (days)	13	20	35	27	4	31	32	19	32	11	19	58	14	8	36	23.9 ± 13.9
Supinator fat content	311	311	286	298	367	386	328	301	327	304	314	318	345	371	275	323 ± 32
Radiologist fat grade	0	2	0	2	2	2	1	0	1	0	0	2	1	1	0	0.9 ± 0.9
Insertion site angle (deg)	43	21	24	40	42	41	32	0	50	15	0	26	35	15	47	25.2 ± 15.4

*Y = yes, N = no, L = left, and R = right. †The values are given as the mean and the standard deviation.

TABLE E-2 Anterior Approach Data*

	Case																	Mean†
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Age (yr)	60	51	59	61	43	67	33	50	54	42	34	36	61	51	51	58	53	51 ± 10
Injured side	R	R	R	L	R	L	L	R	R	R	R	L	L	R	L	L	L	
Dominant side	Y	Y	Y	Y	Y	N	N	Y	Y	Y	N	N	N	Y	N	Y	N	
Workers' Compensation	N	N	Y	Y	N	N	N	Y	Y	N	N	N	N	N	N	N	N	
Follow-up (yr)	6.2	5.2	5.6	5.4	5.4	5.3	6.3	4.3	2.8	5.1	4.5	4.5	2.0	5.2	1.0	2.1	2.6	4.3 ± 1.6
Pain	0	0	1	0	0	0	0	0	1	0	1	2	1	0	0	2	0	0.5 ± 0.7
DASH (points)	13.4	4.2	3.3	31.7	0.0	0.0	0.0	0.8	9.5	0.8	2.5	6.9	6.9	0.0	0.9	2.5	2.5	5.1 ± 7.8
DASH Work	25.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2 ± 6.2
Healing	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Heterotopic bone	Y	N	Y	N	Y	N	N	N	N	Y	N	N	Y	N	Y	Y	N	
Heterogeneity	High	Low	High	Low	High	Low	Low	Low	Low	Low	High	High	High	High	High	High	Low	
60° pronation (%)	124.2	109.0	109.2	91.7	85.0	82.1	114.2	137.3	132.8	98.5	99.3	102.2	77.3	96.6	77.5	113.1	70.7	101.2 ± 19.5
0° neutral (%)	131.1	75.0	89.5	93.5	80.7	86.6	103.2	108.0	107.5	122.3	76.0	89.6	75.7	70.3	67.8	105.2	41.9	89.6 ± 21.9
60° supination (%)	70.5	67.3	75.3	97.2	61.0	70.4	79.8	91.2	94.1	60.0	54.7	74.3	31.7	65.2	46.2	61.5	37.9	66.9 ± 18.3
Time from injury to surgery (days)	16	33	8	41	9	16	53	24	33	13	4	43	21	16	18	13	10	21.8 ± 14.0
Supinator fat content	362	297	261	291	292	270	312	265	326	256	338	269	328	212	225	250	326	287.1 ± 41.3
Radiologist fat grade	0	0	1	0	1	0	0	0	2	0	0	0	1	2	0	2	0	0.5 ± 0.8
Insertion site angle (deg)	112	75	93	70	77	53	60	87	79	115	85	115	96	121	124	94	93	88.6 ± 23.3

*Y = yes, N = no, L = left, and R = right. †The values are given as the mean and the standard deviation.

TABLE E-3 Control MRI Data

Case	Supinator Fat Content*	Radiologist Fat Grade	Insertion Site Angle (<i>deg</i>)
1	267.7	0	8
2	282.5	0	24
3	243.5	0	30
4	311.2	0	20
5	255.5	0	35
6	220.4	0	30
7	225.9	0	33
8	238.9	0	15
9	271.1	0	25
10	265.8	0	20
Total†	258.2 ± 27.4	0 ± 0	24.0 ± 8.0

*The values are given as the proton density pixel intensity. †The values are given as the mean and the standard deviation.