

Supplementary Files

Table S1. Patient characteristics.

Authors	Number of Patients in Study	Number of Shoulders in Study	Ages (years)	Gender Ratio (M:F)	Dominant Limb (Dominant:Non-dominant)	Follow-up Periods (months)
Arce et al.	16	16	26.8 (16-42)	13:3	11:5	30.9 (24-46)
Balazs et al.	16	16	20.9 (18-24)	12:4	10:6	32.8 (12-60)
Barnes et al.	16	17	30.0 (17-55)	13:3	7:10	38 (24-67)
Bartl et al.	56	56	29.4 (18-51)	45:11	40:16	37 (25-72)
Buckup et al.	23	23	25.5 ± 7.27	23:0	14:9	28.7 ± 8.45
Creighton et al.	18	18	28.6 (15-50)	15:3	9:9	29.7 (24-48)
Franceschi et al.	10	10	25.6 (18-41)	8:2	9:1	68 (46-83)
Kim et al.	23	23	24 (17-34)	21:2	19:4	36 (24-52)
Krueger et al.	20	20	29 (16-45)	19:1	11:9	24.7 (19-35)
Millar et al.	10	10	35 (23-55)	10:0	7:3	37 (12-89)
Neri et al.	12	12	28 (18-56)	10:2	7:5	34.4 (25-56)
Patel et al.	40	40	33.1 (15-48)	34:6	11:29	36 (12-87)
Ryu et al.	15	15	27.5 (17-44)	12:3	12:3	22 (18-70)
Shin et al.	62	63	23.2 (14.7-47.2)	46:16	34:29	46.9 (18-78)

M, male; F, female.

Table S2. Preoperative factors of revision surgery.

Authors	Poor Technique	Trauma	Glenoid Loss	Humeral Loss	Hyperlaxity
Arce et al.	12 (75%)	4 (25%)	NA	NA	Positive anterior apprehension sign: 3 (19%)
Balazs et al.	NA	NA	Calculated: 9% (0%-22%) Observed: 5.3% (0%-20%)	Engaging Hill-Sachs: 0 (0%)	Positive anterior apprehension sign: 16 (100%)
Barnes et al.	NA	NA	NA	NA	Positive anterior apprehension sign: 3 (18%)
Bartl et al.	NA	43 (77%)	Total 22 (39%) checked <10%: 15 (27%) 11-20%: 7 (12%)	NA	Clinical sign (+): 16 (29%)
Buckup et al.	0 (0%)	3 (13%)	NA	NA	NA
Creighton et al.	NA	NA	NA	NA	NA
Franceschi et al.	NA	7 (70%)	NA	Total 6 (60%) checked Calandra Grade I: 1 (10%) Grade II: 2 (20%) Grade III: 3 (30%)	Anterior translation: 10 (100%) Grade 2: 3 (30%) Grade 3: 7 (70%)
Kim et al.	5 (22%)	9 (39%)	Total 14 (60%) checked <10%: 7 (30%) 11-20%: 4 (17%) 21-30%: 3(13%)	Total 23 (100%) checked Calandra Grade I: 1 (4%) Grade II: 2 (9%) Grade III: 20 (87%)	Anterior translation: 23 (100%) Grade 2: 3 (13%) Grade 3: 20 (87%) Inferior translation: 3 (13%) Grade 1: 2 (9%) Grade 2: 1 (4%)
Krueger et al.	NA	NA	NA	Total 20 (100%) checked Calandra Grade I: 3 (15%) Grade II: 9 (45%) Grade III: 8 (40%)	NA
Millar et al.	0 (0%)	10(100%)	Total 5 (50%) checked Mild: 4 (40%) Severe: 1 (10%)	Total 6 (60%) checked Mild: 5 (50%) Severe: 1 (10%)	NA
Neri et al.	6 (50%)	2(17%)	NA	Total 9 (75%) checked Calandra Grade I: 7 (58%) Grade III: 2 (17%)	Anterior translation: 12 (100%) Grade 2: 8 (67%) Grade 3: 4 (33%) Posterior translation: 5 (41%) Grade 2: 1 (8%) Sulcus: 4 (33%)
Patel et al.	NA	32(80%)	Total 5(13%) checked	Total 17(43%) checked	Anterior translation: 34 (85%) Grade 1: 8 (20%) Grade 2: 17 (42.5%) Grade 3: 9 (23.5%)

					Posterior translation: 1 (2.5%) Grade 2: 1 (2.5%) Multidirectional instability: 3 (8%)
Ryu et al.	NA	NA	Total 5 (33%) checked <10%: 1 (7%) 11-15%: 2 (13%) >20%: 2 (13%)	Total 13 (86%) checked Small Hill-Sachs: 8 (53%) Engaging Hill-Sachs: 5 (33%)	Sulcus sign (+): 3 (20%)
Shin et al.	NA	NA	NA	NA	Clinical sign (+): 13(21%) Anterior: 130/253 Posterior: 6/52 Inferior: 6/38
Total	23/84	110/190	51/144	94/146	Multidirectional: 3/40

NA: Not available.

Table S3. Clinical outcomes and range of motion after revision surgery.

Authors	Rowe Score	SST	UCLA Score	ASES Score	Constant Score	SANE Score	WOSI Score	Walch-Duplay Score	Subjective Shoulder Value Score	Visual Analog Pain Scale	Melbourne Instability Shoulder Score	Pre-operative ROM	Final Follow-up ROM
													FF: 160 (135-180) AB: 85 (70-100) ER in 0° AB: 45 (15-75)
Arce et al.	33→80	-	22→31	-	69→80	-	-	-	-	-	-	NA	Loss of ER : 15 (0-35) ER in 90° AB: 80 (65-100) IR in 90° AB: T9 (L1-T5)
Balazs et al.	-	*9.7→10.7	-	67.8→85	-	50.6→82.1	45.4%→68.9%	-	-	-	-	NA	NA
Barnes et al.	83.8	8.3→11.3	-	-	-	-	-	-	-	-	-	NA	NA
Bartl et al.	68→85	7→11	-	-	72→87	-	-	-	-	-	-	NA	NA
Buckup et al.	90	-	-	83	90	-	-	85.5	-	-	-	NA	ER in 90° AB deficit: 9.25 ER in 0° AB deficit: 12
Creighton et al.	-	6→10	-	50→76	-	-	-	-	-	6→2	-	NA	ER in 0° AB deficit: 5

												90°	
												AB:	
												76.3	
												*FF:	
												176	
Millar et al.	37→93	-	16→31	-	-	-	-	-	-	-	-	*FF: 176	*AB:
												*AB: 143	174
												ER: 50	ER: 82
												*IR: T11	*IR:
													T10
Neri et al.	74.5	11.45	29.6	-	-	-	-	-	-	-	-	ER: 64.1	ER:
												± 15.6	69.5 ±
													17.4
Patel et al.	-	-	-	81.1	-	-	68.2%	-	-	-	-	NA	NA
Ryu et al.	-	-	-	-	-	86	-	-	-	-	-	NA	NA
Shin et al.	-	6.1→9.0	-	63.7→85.1	-	-	80.1%	-	-	2.89→0.8	-	NA	NA
										1			
Mean	63.94→85.2	7.11→10.3	20.32→31.5	61.83→82.7	71.33→86.5	50.60→78.21	45.40%→73.77%	80.5	69.25	3.58→1.0	73.7		
	6	3	7	6	4					7			

SST, Simple Shoulder Test; UCLA, University of California, Los Angeles; ASES, American Shoulder and Elbow Surgeons; SANE, Single Assessment Numeric Evaluation; WOSI, Western Ontario Shoulder Instability; * Data that has statistically no significance; c.f. Krueger et al.: Initial group vs. Revision group.