



Fig. E-1A

Axillary radiograph of a right shoulder showing the normal anteroposterior relationship of the humeral head to the glenoid.



Fig. E-1B

Axillary radiograph of a right shoulder showing the posterior relationship of the humeral head to the glenoid without change in glenoid morphology.



Fig. E-1C

Axillary radiograph of a right shoulder showing the posterior relationship of the humeral head to the glenoid with glenoid retroversion.



Fig. E-1D

Axillary radiograph of a right shoulder showing the posterior relationship of the humeral head to the glenoid with glenoid biconcavity.

TABLE E-1 Patients Who Had Repeat Surgery

Sex and Age of Patients by Procedure	Original Diagnosis*	Prior Surgeries	Complicating Factors at Time of Ream and Run	Reason for Repeat Surgery
Subscapularis repair				
M, 52	DJD	0	Loose bodies, synovial inflammation	Subscapularis weakness
M, 60	DJD	1	None	Tore upper subscapularis in vigorous rehabilitation
M, 68	CA	1	Contracture and posterior glenoid wear	Subscapularis weakness
M, 53	DJD	2	None	Tore upper subscapularis in heavy lift
Closed manipulation				
M, 53	DJD	1	None	Severe brachial plexopathy after scalene block, stiffness
M, 58	CA	3	Scarring, posterior glenoid erosion	Mild stiffness
Soft-tissue release and/or bone removal				
M, 48	CA	1	Severe contracture, posterior instability	Abutting bone and stiffness
M, 66	DJD	0	Tight shoulder	Pain and stiffness
F, 39	CA	2	Multiple prior injections, tight contracture	Pain and stiffness
F, 43	CA	1	Postoperative scarring, posterior glenoid erosion	Heterotopic bone and stiffness
Repeat reaming				
M, 45	CA	3	Severe deformity	Pain and stiffness
M. 63	DJD	1	None	Pain and stiffness, <i>Propionibacterium acnes</i> grew on routine cultures
M, 55	DJD	0	None	Pain and stiffness
Total shoulder				
M, 51	PTA	0	Prior glenoid	Pain and stiffness

			fracture, deformity, and tight contracture	
M, 52	CA	8	Massive osteophytes, tight contracture	Pain and stiffness
M, 63	CA	2	Severe contracture and massive osteophytes	Pain and stiffness
M, 46	CA	3	Severe deformity	Pain and stiffness
F, 50	DJD	0	None	Pain and stiffness
M, 45	CA	8	Anterior glenoid and subscapularis deficiency	Instability refractory to 2 attempts at soft-tissue reconstruction
M, 58	DJD	2	Diabetes	Pain and stiffness refractory to soft-tissue release
Infection				
M, 55	CA	3	Anterior glenoid and subscapularis deficiency and/or contracture	Infection, <i>Propionibacterium acnes</i> , bacillus megaterium
M, 56	DJD	0	None	After return to competitive triathlons, onset of shoulder pain after scratching eczema on hand.

*CA = capsulorrhaphy arthropathy, DJD = degenerative joint disease, and PTA = posttraumatic arthropathy.