

TABLE E-1 Patient Data

Case	Gender/ Age	Infection*	Organism†	Treatment‡	Other Prior Surgeries†	Interval to Arthroplasty (Yr)	Follow-up (Yr)	Preop.Evaluation§			Intraop. Findings#	Osseous Abnormalities	Soft Tissues	Radiographs	Implant**
								WBC	ESR	Aspiration					
1	M/42	S/P shoulder aspiration	Streptococcus	I and Dx3, IV antibiotics		1.5	19	8.4	9	None	Noninflammatory	No glenoid cartilage	Thin, attenuated rotator cuff	Mottled humeral head	HHR
2	M/52	Infant septic arthritis	NA	NA		51	2.66	NA	NA	None	Noninflammatory	Anterior glenoid bone loss	Severe tissue loss	Glenohumeral dysplasia with 8 cm proximal bone loss	HHR
3	F/65	Adult septic arthritis	NA	I and D, 4 wks IV Ceftriaxone	Rotator cuff x3	2	5.33	4	11	Negative	Chronic synovitis	Medial erosion of glenoid	Intact		TSA
4	M/58	S/P rotator cuff repair	NA	I&D, 4 wks IV antibiotics	Rotator cuff	2	5.5	4.8	2	Negative	Chronic inflammation	No glenoid cartilage	Intact		TSA
5	M/64	S/P ORIF proximal humerus	NA	I and D, antibiotics	ORIF proximal humerus	25	12	5.1	NA	None	Noninflammatory	Cystic changes glenoid, no cartilage	Intact		TSA
6	M/45	S/P ORIF proximal humerus	NA	I and D, antibiotics	ORIF proximal humerus	40	6.5	9.6	5	None	Mild chronic synovitis, no infection	No glenoid cartilage	Intact	Dysplastic changes proximal humerus	TSA
7	M/61	S/P shoulder aspiration	Pseudomonas	I and D, antibiotics		12	10.5	8.1	17	None	Noninflammatory	Medial erosion of glenoid	Rotator cuff tear	Mottled humeral head	HHR
8	F/54	S/P shoulder aspiration	NA	I and D, antibiotics		4	5.2	3.9	20	None	Noninflammatory	Fibrocartilaginous surface to glenoid	Intact	Mottled humeral head	HHR
9	M/44	Adult septic arthritis	Staph epidermidis	I and Dx2, 2 wks IV Oxacillin		0.6	15	7.1	48	Negative	Chronic synovitis	No glenoid cartilage	Severe loss, fascia lata reconstruction		HHR
10	F/78	S/P acromionect omy	NA	I and Dx4, antibiotics		3	3	5.7	NA	Negative	Slight chronic inflammation	Medial erosion of glenoid	Severe loss, fascia lata reconstruction	Prior resection below surgical neck	TSA
11	M/57	Adult septic arthritis	Staph epidermidis	I and D, 2 wks IV Ancef		0.75	16	8.3	43	Negative	Chronic inflammation	Flattened glenoid with no cartilage	Intact		TSA
12	F/48	Infant septic arthritis	NA	I and Dx8		43	15.5	6.7	8	Negative	Noninflammatory	Flattened glenoid with no cartilage	Deficient rotator cuff	Glenohumeral dysplasia and bone loss	HHR

*S/P = status-post, ORIF = open reduction and internal fixation. †NA = not available. ‡I and D = irrigation and debridement and IV = intravenous. §WBC = white blood-cell count, and ESR = erythrocyte sedimentation rate. #Chronic inflammation or synovitis means that there were no polymorphonuclear leukocytes and no signs of infection. **HHR = hemiarthroplasty and TSA = total shoulder arthroplasty.