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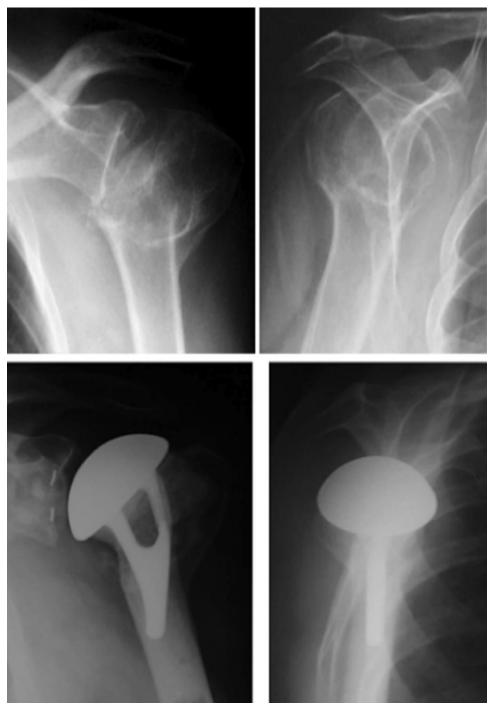


Fig. E-1
Fracture sequela involving humeral head osteonecrosis and valgus malunion of the greater tuberosity (type 1C). In this case, use of a short humeral stem mitigated the risk of both diaphyseal humeral fracture and medial positioning of the humeral head. Note the appropriate relationship between the head of the prosthesis and the greater tuberosity. It is important to consider both the anteroposterior and lateral projections when planning reconstruction in cases of malunion.

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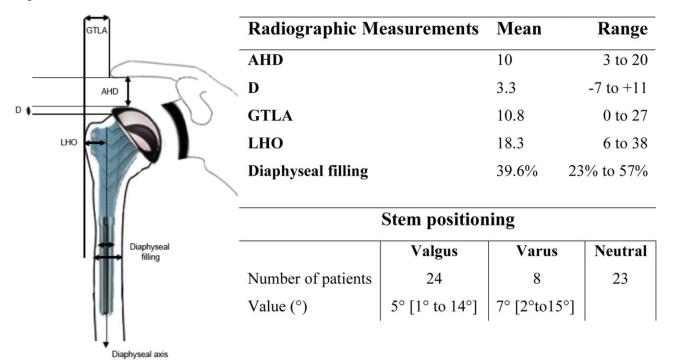


Fig. E-2
Radiographic measurements on a postoperative anteroposterior radiograph. AHD = acromiohumeral distance, D = distance between the top of the greater tuberosity and the top of the humeral head prosthesis, GTLA = greater tuberosity lateral offset, and LHO = lateral humeral offset. Diaphyseal filling was evaluated in only forty-seven patients (short stems were excluded); all other radiographic measurements were evaluated in all patients.

TABLE E-1 Other Variables with Potential Influence on Clinical Outcomes After Shoulder Arthroplasty for Type-1 Fracture Sequelae

	Outcome		
Variables	Measure	P Value	Test
Preoperative status of rotator cuff: torn or thin versus normal	Constant score	0.36	T test
Initial fracture treatment: conservative versus surgical	Constant score	0.30	T test
Surgical procedure before arthroplasty versus no surgical procedure on shoulder	Constant score	0.20	T test
Postoperative radiograph (Fig. E-2): $D \le 0$ versus $D > 0$	Constant score	0.13	T test
Osteonecrosis versus no osteonecrosis	Constant score	0.59	T test
Delay between trauma and arthroplasty: <24 months versus >24 months	Constant score	1	T test