

TABLE E-1 Data on Patients

Case	Sex	Age (yr)	Fracture Type*	Associated Injuries	Rheumatoid Elbow Joint Involvement†		Delay Between Fracture and Treatment (days)	Implant	Complication	Reoperations (no.)	Duration of Follow-up (mo)	MEPS (points)
Group 1‡												
1	F	59	B	Olecranon fracture	IIIA	Severe	1	Lat. locking plate, Kirschner wires, olecranon plate	Stiffness	Kirschner wire removal (1), arthrolysis (2)	60	100
2	M	69	B	No	II	Mild	5	Med reconstr. plate	No	No	44	100
3§	M	56	C	No	IIIB	Severe	3	Med. + lat. locking plates	No	No	24	95
4	M	69	C	No	II	Mild	0	Med. + lat. reconstr. plate, 1 free screw	Painful olecranon screw	Olecranon screw removal (1)	24**	70
5#	F	58	C	No	II	Mild	5	Med. reconstr. plate + lat. locking plate	No	No	72	100
6#	F	58	C	No	II	Mild	5	Med. reconstr. plate + lat. locking plate	No	No	72	95
Group 2‡												
7	F	67	A	No	IV	Severe	4	Semiconstrained Coonrad-Morrey total elbow arthroplasty	No	No	132**	90
8	M	74	B	No	IIIA	Severe	10	Semiconstrained Coonrad-Morrey total elbow arthroplasty	No	No	48**	100
9§	M	56	B	No	IIIB	Severe	3	Semiconstrained Coonrad-Morrey total elbow arthroplasty	No	No	24	95
10	M	57	B	No	IV	Severe	1	Semiconstrained Coonrad-Morrey total elbow arthroplasty	No	No	120**	100
11	F	72	B	Radial head fracture	IIIB	Severe	1	Semiconstrained Coonrad-Morrey total elbow arthroplasty	No	No	66	100

12	M	47	B	No	IV	Severe	8	Semiconstrained Coonrad-Morrey total elbow arthroplasty	Loosening of ulnar component	Revision of ulnar component	60	100
13	F	64	B	No	IV	Severe	2	Semiconstrained Coonrad-Morrey total elbow arthroplasty	No	No	72	95
14	M	50	B	No	IV	Severe	10	Semiconstrained Coonrad-Morrey total elbow arthroplasty	No	No	84	100
15	F	67	C	No	Not possible	Not possible	3	Semiconstrained Coonrad-Morrey total elbow arthroplasty	No	No	30**	100
16	M	83	C	No	IIIB	Severe	7	Semiconstrained Coonrad-Morrey total elbow arthroplasty	Acute infection	Débridement (1), revision of humeral component (2)	24**	80

*According to the AO classification⁶. †According to the Mayo classification^{7,8}, further divided into mild (stage I and II) and severe (stage III and IV). In Case 15, correct staging was not possible because of insufficient radiographs. ‡Group 1 = open reduction and internal fixation, and Group 2 = semiconstrained Coonrad-Morrey total elbow arthroplasty. §The patient had bilateral fractures, operated on the same day with open reduction and internal fixation on one side and total elbow arthroplasty on the other side. #The patient had bilateral fractures, operated on the same day with open reduction and internal fixation. **The patient died before the study was initiated. The data derived at the time of the latest available follow-up examination are included.