



Fig. E-1



Fig. E-2

Fig. E-1 Postoperative radiograph at one month showing the elastic stable intramedullary nailing of a midshaft clavicular fracture in a nineteen-year-old man.

Fig. E-2 Postoperative radiograph at four months showing implant bending that occurred two months after reconstruction plate fixation of a midshaft clavicular fracture in a twenty-three-year-old man.

TABLE E-1 Minor and Major Complications According to Treatment Group

Parameter	Plate Group* (N = 29)	Nail Group* (N = 25)	Relative Risk†	P Value
Minor				
Implant-related pain	4 (14%)	10 (40%)	2.9 (1.0 to 8.1)	0.035
Implant bending	11 (38%)	1 (4%)	0.1 (0.0 to 0.8)	0.003
Paresthesia	8 (28%)	0 (0%)	0	0.005
Partial implant migration	2 (7%)	5 (20%)	2.9 (0.6 to 13.7)	0.229
Superficial infection	1 (3%)	0 (0%)	0	0.999
Major				
Elevation deficit	2 (7%)	2 (8%)	1.2 (0.2 to 7.7)	0.999
Nonunion	0 (0%)	1 (4%)	—	0.463
Refracture	0 (0%)	1 (4%)	—	0.463
Reoperation	0 (0%)	1 (4%)	—	0.463
Total implant failure	1 (3%)	0 (0%)	0	0.999

*The values are given as the absolute number, with the percentage in parentheses. †The values are given as the relative risk, with the 95% CI in parentheses.

TABLE E-2 Characteristics of Plates, Fractures, and Relevant Complications in the Plate Group

Case No. in Plate Group	Interfragmentary Screw	Empty Holes	Plate Length (no. of holes)	Fracture Comminution	Implant Bending	Implant-Related Pain	Residual Shortening (cm)
1	No	1	8	Present	Yes	Yes	1.8
2	Yes	1	8	Present	No	No	0.7
3	Yes	3	10	Present	No	No	0.2
4	Yes	2	8	Present	No	No	0
5	No	1	7	Present	Yes	No	1.7
6	Yes	1	7	Present	Lost to follow-up	Lost to follow-up	Lost to follow-up
7	No	2	8	Present	Yes	Yes	2.0
8	No	1	7	Absent	No	No	0.5
9	No	2	8	Present	No	No	0.6
10	No	2	8	Present	Lost to follow-up	Lost to follow-up	Lost to follow-up
11	No	2	8	Present	Yes	No	−0.4
12	No	2	8	Absent	No	No	0.2
13	Yes	1	7	Absent	No	No	0.2
14	No	4	10	Present	Yes	Yes	−0.3
15	Yes	1	8	Absent	No	No	0.6
16	No	2	8	Present	No	No	0.6
17	No	2	8	Present	Yes	No	0
18	No	1	8	Absent	Lost to follow-up	Lost to follow-up	Lost to follow-up
19	No	2	8	Absent	No	No	0
20	No	2	8	Present	No	No	0.1
21	Yes	2	10	Present	No	No	0
22	No	2	8	Present	Yes	No	0.6
23	No	1	8	Absent	Yes	Yes	2.4
24	No	1	8	Present	No	No	0.2
25	No	3	10	Present	No	No	0.8
26	Yes	2	8	Absent	Lost to follow-up	Lost to follow-up	Lost to follow-up
27	No	2	8	Present	No	No	−0.1
28	Yes	4	10	Absent	No	No	0.2
29	Yes	4	10	Present	Yes	No	0.9
30	Yes	1	8	Absent	No	No	0.6
31	Yes	4	10	Present	No	No	0.2
32	No	1	8	Absent	Yes	No	1.7
33	No	1	8	Present	Yes	No	2.2