

TABLE E-1 Detailed List of the Forty-two Cases of Instrument Breakage During Orthopaedic Procedures in Two Different Hospitals

Case	Age (yr)	Sex	Date of Surgery	Hospital*	Diagnosis	Therapy	Broken Instrument	Instrument Removed	Complication
1	87	M	1/2/05	B	Pertrochanteric fracture	Dynamic hip screw	Drill bit	No	None
2	49	F	1/10/05	B	Femoral fracture	Plate	Tap	No	None
3	77	M	2/9/05	B	Tibial plateau fracture	Plate	Threaded Kirschner wire	Yes	None
4	50	M	2/27/05	B	Pertrochanteric fracture	Gamma nail	Drill bit	No	None
5	14	F	3/4/05	B	Humeral fracture	External fixation	Drill bit	No	None
6	22	M	4/3/05	A	Femoral fracture	External fixation	Drill bit	No	None
7	17	M	4/14/05	B	Medial malleolar fracture	Cannulated screws	Threaded Kirschner wire	No	None
8	37	M	5/30/05	A	Femoral fracture	External fixation	Drill bit	No	None
9	47	F	6/5/05	A	Lisfranc fracture	Cannulated screws	Threaded Kirschner wire	No	None
10	85	M	6/17/05	B	Pertrochanteric fracture	Gamma nail	Threaded Kirschner wire	No	None
11	79	F	9/5/05	B	Bimalleolar fracture	External fixation	Drill bit	No	None
12	17	M	9/11/05	B	Humeral fracture	Kirschner wire	Threaded Kirschner wire	No	None
13	61	M	10/4/05	A	Femoral pseudarthrosis	Plate	Tap	No	None
14	51	M	10/6/05	A	Lisfranc fracture	Cannulated screws	Threaded Kirschner wire	No	None
15	42	F	12/12/05	B	Bimalleolar fracture	Tension banding	Smooth Kirschner wire	No	None
16	68	M	12/23/05	B	Distal radial fracture	Volar plate	Drill bit	Yes	None
17	87	M	1/14/06	B	Periprosthetic femoral fracture	Plate	Drill bit	No	None
18	80	M	1/18/06	B	Tibial shaft fracture	Reamed tibial nailing	Threaded Kirschner wire	No	None
19	82	M	1/23/06	B	Pertrochanteric fracture	Gamma nail	Threaded Kirschner wire	No	None
20	66	F	1/24/06	A	Weber type-B fracture	Plate	Threaded Kirschner wire	No	None
21	65	F	1/27/06	A	Proximal humeral fracture	Plate	Drill bit	No	None
22	100	F	2/1/06	B	Proximal humeral fracture	Kirschner wire	Threaded Kirschner wire	No	None
23	76	M	2/20/06	B	Pertrochanteric fracture	Dynamic hip screw	Tap	No	None
24	103	F	2/22/06	B	Proximal humeral fracture	Kirschner wire	Threaded Kirschner wire	No	None

25	22	F	3/3/06	A	Femoral fracture	Antegrade femoral nail	Drill bit	No	None
26	95	M	3/7/06	B	Subtrochanteric fracture	Gamma nail	Drill bit	No	None
27	83	M	4/3/06	B	Distal humeral fracture	Plate	Drill bit	No	None
28	77	M	4/13/06	B	Clavicular fracture	Plate	Drill bit	Yes	None
29	39	F	4/14/06	B	Femoral fracture	External fixation	Drill bit	No	None
30	67	F	5/28/06	A	Femoral fracture	Antegrade femoral nail	Drill bit	No	None
31	47	M	6/18/06	B	Humeral fracture	Nail	Drill bit	No	None
32	71	F	6/20/06	A	Meniscal injury	Arthroscopy	Probe	Yes	None
33	85	F	6/21/06	A	Pertrochanteric fracture	Proximal femoral nail	Drill bit	No	None
34	99	F	6/25/06	A	Pertrochanteric fracture	Proximal femoral nail	Hexagonal screwdriver tip	No	None
35	73	F	8/8/06	A	Pertrochanteric fracture	Proximal femoral nail	Drill bit	No	None
36	48	M	8/13/06	B	Osteonecrotic femur	Drilling	Drill bit	No	None
37	25	M	8/18/06	A	Lisfranc fracture	Cannulated screws	Threaded Kirschner wire	No	None
38	34	F	10/22/06	B	Tibial plateau fracture	External fixation	Threaded Kirschner wire	Yes	None
39	29	M	10/27/06	A	Humeral fracture	Nail	Drill bit	No	None
40	41	M	10/28/06	A	Tibial plateau fracture	Plate	Drill bit	No	None
41	57	M	11/17/06	B	Femoral fracture	Antegrade femoral nail	Drill bit	No	None
42	53	M	12/2/06	B	Varus deformity	Tibial osteotomy, plate	Drill bit	No	None

* A = Medical University of Graz; B = Bolzano Central Hospital.