

Table SI. Baseline characteristics of the patients.

Patient no.	Sex	Age (years)	Pre-operative time (days)	Cause of injury	Three-column type	AO/OTA type	Surgical incision	Average Rasmussen scores immediately after the operation	Average time of healing (weeks)	Average time of full weight-bearing (weeks)	Straight angle (°)	Bend Angle (°)	Average HSS scores at 12 months post-operatively
1	Male	41	10	Fall from electric bicycle	Medial + posterior columns	B3.2	Posterior medial incision	14	12	15	0	123	91
2	Female	61	13	Motor vehicle collision	Medial + lateral columns	C2.3	Anterolateral + posterior medial incision	16	13	17	3	119	82
3	Male	29	8	High fall	Three-column	C2.3	Anterolateral + posterior medial incision	18	12	16	0	134	92
4	Male	47	11	Motor vehicle collision	Medial + posterior columns	B3.2	Posterior medial incision	14	12	15	5	112	87
5	Female	58	5	Fall from bicycle	Medial + posterior columns	B2.3	Posterior medial incision	16	9	13	0	130	94
6	Female	55	8	Fall from electric bicycle	Medial + lateral columns	C2.3	Anterolateral + posterior medial incision	18	12	15	0	135	93
7	Male	19	7	Fall from electric bicycle	Medial + posterior columns	B3.2	Posterior medial incision	16	8	13	0	140	96
8	Female	42	11	Fall from electric bicycle	Medial + lateral columns	C2.3	Anterolateral + posterior medial incision	18	12	15	5	123	86
9	Female	39	14	High fall	Three-column	C3.3	Anterolateral + posterior medial incision	14	14	19	0	131	90
10	Male	50	13	Fall from electric bicycle	Medial column	B3.2	Anteromedial incision	16	10	14	3	120	89
11	Male	37	12	High fall	Three-column	C2.3	Anterolateral + posterior medial incision	16	13	18	0	135	92

Table SI. Continued.

Patient no.	Sex	Age (years)	Pre-operative time (days)	Cause of injury	Three-column type	AO/OTA type	Surgical incision	Average Rasmussen scores immediately after the operation	Average time of healing (weeks)	Average time of full weight-bearing (weeks)	Straight angle (°)	Bend Angle (°)	Average HSS scores at 12 months post-operatively
12	Male	29	10	Fall from electric bicycle	Three-column	C3.3	Anterolateral and posterior medial incision	12	14	20	3	97	68
13	Female	43	12	Motor vehicle collision	Medial column	B3.2	Anteromedial incision	16	10	13	0	135	93
14	Male	51	17	Motor vehicle collision	Three-column	C2.3	Anterolateral + backside inverted 'L' incision	14	13	17	5	110	75
15	Female	33	11	Fall	Medial + posterior columns	B3.2	Posterior medial incision	16	11	13	0	135	96
16	Female	49	15	Motor vehicle collision	Three-column	C3.3	Anterolateral + posterior medial incision	16	14	18	7	102	69
17	Male	52	13	High fall	Medial + lateral columns	C2.3	Anterolateral + posterior medial incision	14	11	15	0	132	92
18	Female	71	7	Fall	Medial + posterior columns	B2.3	Anteromedial incision + backside inverted 'L' incision	18	13	15	5	130	91
19	Male	67	12	Motor vehicle collision	Medial + posterior columns	B2.3	Posterior medial incision	16	13	18	2	132	95
20	Female	26	9	Fall from electric bicycle	Medial + lateral columns	C2.3	Anterolateral + posterior medial incision	16	13	16	5	118	85
21	Female	36	11	Fall from bicycle	Medial + posterior columns	B3.2	Anterior medial + backside inverted 'L' incision	16	12	16	0	131	92
22	Male	48	12	High fall	Three-column	C3.3	Anterolateral + anteromedial + backside inverted 'L' incision	14	14	18	5	123	87

Table SI. Continued.

Patient no.	Sex	Age (years)	Pre-operative time (days)	Cause of injury	Three-column type	AO/OTA type	Surgical incision	Average Rasmussen scores immediately after the operation	Average time of healing (weeks)	Average time of full weight-bearing (weeks)	Straight angle (°)	Bend Angle (°)	Average HSS scores at 12 months post-operatively
23	Female	45	9	Fall from electric bicycle	Medial column	B3.2	Anteromedial incision	16	12	15	0	132	95
24	Male	62	7	Fall from bicycle	Medial column	B2.3	Anteromedial incision	16	12	15	5	125	79
25	Male	41	10	Fall from electric bicycle	Medial + posterior columns	B3.2	Posterior medial incision	14	14	17	5	124	82

Pre-operative time is the time between the injury/accident and the surgery. AO/OTA: Arbeitsgemeinschaft für Osteosynthesefragen/Orthopaedic Trauma Association; HSS: Hospital for Special Surgery.