

**Appendix A** Descriptives of postoperative subluxated PIP joint cases

	Patient 1	Patient 2	Patient 3	Patient 4	Patient 5	Patient 6
Sex	Man	Woman	Man	Man	Man	Woman
Age (years)	21	23	25	35	39	69
Race	Black	White	White	White	White	White
Finger	Index	Little	Middle	Middle	Ring	Little
Cause of injury	Sports	Fall	Unknown	Unknown	Crush	Fall
Comminution	Yes	Yes	Yes	Yes	No	Yes
Articular involvement (%)	54	71	53	45	34	59
Fracture displacement (%)	79	47	44	19	88	58
Days to treatment	32	13	6	20	7	26
Initial treatment	ORIF	Percutaneous pinning	Volar plate arthroplasty	ORIF	Extension block pinning	ORIF
Immobilization (d)	23	26	20	14	29	35
Reoperation	No	No	No	Yes	No	Yes

Abbreviations: ORIF, open reduction and internal fixation; PIP, proximal interphalangeal.

**Appendix B** Factors associated with postoperative arthritis

Characteristics	Postoperative arthritis		p-Value
	No	Yes	
	(n = 33)	(n = 12)	
Age, median (IQR), years	39 (27–45)	43 (22–56)	0.67
Sex, n (%)			
Men	21 (64)	9 (82)	0.46
Women	12 (36)	2 (18)	
Race, n (%)			
White	25 (76)	8 (73)	>0.99
Other	8 (24)	3 (27)	
Smoking, n (%) <sup>a</sup>			
Yes	4 (14)	1 (11)	>0.99
No	25 (86)	8 (89)	
Diabetes, n (%) <sup>a</sup>			
Yes	1 (8.3)	0	>0.99
No	11 (92)	8 (100)	
BMI, median (IQR) <sup>a</sup>	26 (23–28)	23 (22–27)	0.50
Dominant side affected, n (%) <sup>a</sup>			
Yes	16 (52)	7 (78)	0.26
No	15 (48)	2 (22)	
Affected finger, n (%)			
Index	3 (9.1)	1 (9.1)	0.17
Middle	10 (30)	1 (9.1)	
Ring	9 (27)	7 (64)	
Little	11 (33)	2 (18)	

(continued)

## Appendix B (continued)

Cause of injury, <i>n</i> (%) <sup>a</sup>			
Impact	24 (86)	9 (82)	0.78
Crush	3 (11)	1 (9.1)	
Sharp	1 (3.6)	1 (9.1)	
Open fracture, <i>n</i> (%)			
Yes	4 (12)	2 (18)	0.63
No	29 (88)	9 (82)	
Days between injury and first visit, median (IQR)	6.0 (3.0–11)	5.0 (1.0–19)	0.32
Days between injury and treatment, median (IQR)	11 (6.0–19)	9.5 (5.0–32)	0.65
Articular involvement, mean (SD), %	42 (21)	43 (14)	0.88
Fragment displacement, median (IQR), %	57 (35–79)	63 (41–79)	0.76
Comminution, <i>n</i> (%)			
Yes	14 (42)	6 (55)	0.51
No	19 (58)	4 (45)	
Treatment, <i>n</i> (%)			
Open reduction and internal fixation	24 (73)	4 (36)	0.091
Percutaneous pinning	5 (15)	4 (36)	
Hemihamate	2 (6.1)	2 (18)	
Static external fixation	1 (3.0)	0	
Volar plate arthroplasty	1 (3.0)	0	
Extension block pinning	0	1 (9.1)	
Preoperative subluxation, <i>n</i> (%)			
Yes	5 (15)	10 (91)	>0.99
No	28 (85)	1 (9.1)	

Abbreviations: BMI, body mass index; IQR, interquartile range; SD, standard deviation.

<sup>a</sup>Incomplete data.