

Table 1. Study population characteristics and demographic data (N =66)

Variable	Value
Age (y)	21-82(50.8 ± 16.1)
Gender	
Male	26 (39.4%)
Female	40 (60.6%)
Localization	
Left	30(45.5%)
Right	36(54.5%)
Injury mechanism	
Fall	9(13.6%)
Twist/slide	27(40.9%)
Cycling injury	11(16.7%)
Accident	19(28.8%)
Lauge-Hansen classification	
SER (supination external rotation)	46 (69.7%)
PER (pronation external rotation)	16 (24.2%)
PAB (pronation-abduction)	3 (4.5%)
Not classifiable	1 (1.5%)
Haraguchi classification	
Type I	38(57.6%)
Type II	24(36.4%)
Type III	4(6.0%)
Follow-up (mo)	6-20(10.8 ± 4.4)

Table 2-1. Surgical Outcome Evaluation

Variable	Value
Quality of reduction	
Excellent	59 (89.4%)
Good	5 (7.6%)
Poor	2 (3.0%)
AOFAS score	92.39 ± 3.84
Excellent	52 (78.8%)
Good	14 (21.2%)

Table 2-2. Surgical Outcome Evaluation

	BO	AO	BRIF
VAS scores	6.62 ± 1.03	3.06 ± 0.72	1.20 ± 0.92
	BO vs AO	BO vs BRIF	AO vs BRIF
Z	-7.101	-7.094	-6.629
P	<0.05	<0.05	<0.05

Abbreviations: BO, before operation; AO, after operation; BRIF, before removing the internal fixation.

Table 3. Clinical characteristics among different internal fixation

	AP(7)	PA(38)	Buttress (21)	<i>P</i>
Age	59.4 ± 13.0	49.7 ± 16.1	49.9 ± 17.0	0.331
Gender				
Male	1(14.3%)	15(39.5%)	10(47.6%)	0.295
Female	6(85.7%)	23(60.5%)	11(52.4%)	
Localization				
Left	3(42.9%)	19 (50.0%)	7(33.3%)	0.378
Right	4(57.1%)	19 (50.0%)	14(66.7%)	
Injury mechanism				
Fall	0	7(18.4%)	2(9.5%)	0.867
Twist/slide	2(28.6%)	16(24.1%)	9(42.9%)	
Cycling injury	1(14.3%)	5(13.2%)	5(23.8%)	
Accident	4(57.1%)	10(26.3%)	5(23.8%)	
Lauge-Hansen classification				
SER	7(100%)	27(71.1%)	12(57.1%)	0.266
PER	0	9(23.7%)	7(33.3%)	
PAB	0	2(5.3%)	1(4.8%)	
Not classifiable	0	0	1(4.8%)	
Haraguchi classification				
Type I	3(42.9%)	26(68.4%)	9(42.9%)	0.103
Type II	4(57.1%)	8(21.1%)	12(57.1%)	
Type III	0	4(10.5%)	0	
follow-up time	10.7 ± 4.5	10.2 ± 4.5	10.0 ± 4.4	0.513

Abbreviations: SER, supination external rotation; PER, pronation external rotation; PAB, pronation-abduction.

Table 4-1. Clinical outcome evaluation among different internal fixation

	AP	PA	Buttress
Excellent or good reduction	6(85.7%)	37(97.4%)	21(100%)
Syndesmotic fixation	1 (14.3%)	13(34.4%)	7(33.3%)

Table 4-2. Clinical outcome evaluation among different internal fixation

	AP	PA	Buttress	<i>P</i>
AOFAS score	91.86 ± 3.24	92.34 ± 3.93	92.67 ± 4.09	F= 0.120 >0.05
VAS score				
BO	6.86 ± 1.21	6.42 ± 1.08	6.90 ± 0.83	>0.05
AO	2.29 ± 0.95	3.29 ± 0.61	2.90 ± 0.62	<0.05
BRIF	1.71 ± 1.11	1.26 ± 0.86	0.90 ± 0.94	>0.05

Abbreviations: BO,before operation; AO,after operation; BRIF, before removing the internal fixation.