

Model 1

Variable	Odds ratio (95% CI)	P Value
Age	1.03 (0.99-1.06)	.12
Sex		
Male	1.00 (reference)	
Female	3.74 (1.38-10.1)	.01
BMI	1.06 (0.89-1.26)	.52
Böhler angle before surgery	0.95 (0.91-0.99)	.04

Model 2

Variable	Odds ratio (95% CI)	P Value
Age	1.03 (0.99-1.06)	.07
BMI	0.94 (0.83-1.06)	.32
Type of implant, n (%)		
Kirschner wires	1.00 (reference)	
Cannulated screws	1.68 (0.63-4.52)	.30
Plate	0.66 (0.21-2.03)	.46
Böhler angle before surgery	0.93 (0.88-0.99)	.02
Sanders classification, n (%)		
I	1.00 (reference)	
II	1.15 (0.29-4.48)	.84
III	0.74 (0.18-3.03)	.68
IV	1.68 (0.63-4.52)	.30

Model 3

Variable	Odds ratio (95% CI)	P Value
Age	1.03 (0.99-1.07)	.06
Sex		
Male	1.00 (reference)	
Female	4.27 (1.40-13.0)	.01
BMI	0.99 (0.86-1.14)	.91
E-L classification		
Tongue type	1.00 (reference)	
Joint depression type	1.46 (0.45-4.70)	.53
Type of implant, n (%)		
Kirschner wires	1.00 (reference)	

Cannulated screws	1.46 (0.45-4.70)	
Plate	0.49 (0.13-1.89)	.30
Böhler angle before surgery	0.93 (0.88-0.99)	.02
Sanders classification, n (%)		
I	1.00 (reference)	
II	0.67 (0.15-2.92)	.59
III	0.41 (0.08-2.03)	.28
IV	0.28 (0.03-2.52)	.26
