Supplementary Online Content

The Combined Randomised and Observational Study of Surgery for Fractures in the Distal Radius in the Elderly (CROSSFIRE) Study Group. Plating vs closed reduction for fractures in the distal radius in older patients: a secondary analysis of a randomized clinical trial. *JAMA Surg.* Published online April 27, 2022. doi:10.1001/jamasurg.2022.0809

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Baseline Characteristics of Retained Participants vs Those Lost to

Follow-up

		Participants	Those LTFU	Significance
Baseline measure		(n=151)	(n=15)	(p-value)
Age (years), mean (range	e)	70.8 (60 - 89)	71.6 (62 – 90)	0.69
Female n (%)		131 (86.8%)	14 (93.3%)	0.46
Fracture type n (%)	23A	96 (64%)	8 (53.3%)	0.41
	23C	54 (36%)	7 (46.7%)	
Co-morbidities, n (%)	Diabetes? (Yes)	17 (11.3%)	2 (13.3%)	0.81
	Smoker? (Yes)	2 (1.3%)	2 (13.3%)	0.003
	Glucocorticoid treatment? (Yes)	17 (11.3%)	3 (20%)	0.32
	Osteoporosis treatment? (Yes)	17 (11.3%)	3 (20%)	0.32
Treatment preference n (%)	Surgery	14 (9.4%)	1 (6.7%)	0.91
	Closed reduction	44 (29.5%)	5 (33.3%)	
	No preference	91 (61.1%)	9 (60%)	
EQ-5D-5L, mean (SD)	Index	0.87 (0.17)	0.87 (0.17)	0.99
	EQ-VAS	82.8 (15.8)	77.5 (17.5)	0.23

LTFU = loss to follow-up

eTable 2. PRWE Domain Scores

PRWE domain scores	CR	VLP fixation	<i>P</i> value
(points), MD			
Pain domain	7.9	7.9	.99
Function domain	7.9	5.7	.21
PRWE total	15.8	13.6	.50

eTable 3. Treatment Success as a B	inary Variable
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Overall	3/12			12/12			24/12		
treatment	CR	VLP	RR	CR	VLP	RR	CR	VLP	RR
success n(%)	(n=80)	(n=75)		(n=81)	(n=79)		(n=74)	(n=72)	
Successful	54	61	1.20	57	70	1.26	60	69	1.18
and very	(67%)	(81%)	(1.00	(70%)	(89%)	(1.07	(81%)	(96%)	(1.05 to
successful			to			to			1.33),
Neutral,	26	14	1.45),	24	9	1.48),	14	3	p=0.006
unsuccessful,	(33%)	(19%)	p=0.05	(30%)	(11%)	p<0.01	(19%)	(4%)	
or very									
unsuccessful									

eTable 4. Regression Analysis of Primary Outcome, Adjusting for Age, Sex, Fracture Type, Patient Preference, and Baseline Quality of Life (EQ-VAS Score)

Mean PRWE score	12 months			24 months			
	CR	VLP	MD (95%CI,	CR	VLP	MD (95%CI,	
	(n=81)	fixation	p-value)	(n=74)	fixation	p-value)	
		(n=79)			(n=74)		
Unadjusted analysis	21.5	19.8	1.7 (-5.4 to	15.8	13.6	2.1 (-4.2 to	
			8.8), p=0.63			8.5) p=0.50	
Adjusted analysis	15.3	13.1	2.2 (4.9 to	13.1	11.2	1.9 (-4.7 to	
			9.3), p=0.55			8.5), p=0.58	

eTable 5. Observational Group

5.1 Outcomes at 24 months for the observational group

Outcome		Observational group				
		CR (n=98)	VLP fixation (n=33)	Mean difference (95%CI)		
PRWE		6.8 (13.2)	4.9 (10.3)	1.9 (-3.3 to 7.1), p=0.47		
EQ-5D-5L, mean	Index	0.85 (0.17)	0.83 (0.22)	0.02 (-0.05 to 0.1), p=0.55		
(SD)	EQ-VAS	78.6 (21.2)	73.8 (23.8)	4.8 (-4.4 to 14.0), p=0.30		
Pain on NRS (point	s on 0-10 scale)	0.3 (1.2)	0.1 (0.6)	0.2 (-0.2 to 0.6)		
Patient-reported	Very successful	41 (48%)	20 (65%)	p=0.43		
treatment success, n(%)	Successful	32 (38%)	10 (32%)			
	Neutral	9 (11%)	1 (3%)			
	Unsuccessful	1 (1%)	0 (0%)			
	Very unsuccessful	2 (2%)	0 (0%)			
Patient-reported	Not at all	72 (85%)	28 (90%)	p=0.86		
bother with appearance, n(%)	Bothered a little	12 (14%)	3 (10%)			
	Bothered moderately	0 (0%)	0 (0%)			
	Very bothered	1 (1%)	0 (0%)			
	Extremely bothered	0 (0%)	0 (0%)			

5.2 Complications for observational group

Complications;	Observational group						
frequency	12 months			24 months			
(incidence)	CR	VLP	Risk ratio ^a	CR	VLP	Risk ratio ^a	
	(n=86)	fixation	(95% CI)	(n=87)	fixation	(95% CI)	
		(n=29)			(n=31)		
Any complications	9 (9%)	5 (15%)	1.69 (0.60	9	5 (16.1%)	1.56 (0.57	
			to 4.62)	(10.3%) ^b		to 4.30)	
Deep infection	0 (0%)	1 (3%)	N/A	0 (0%)	1 (3.2%)	N/A	
Reoperation	2 (2%)	1 (3%)	1.50 (0.14	2 (2.3%)	1 (3.2%)	1.40 (0.13	
			to 16.01)			to 14.94)	
Neuropathy	5 (5%)	2 (6%)	1.20 (0.24	4 (4.6%)	2 (6.5%)	1.40 (0.27	
			to 5.90)			to 7.29)	
Tendon irritation	0 (0%)	1 (3%)	N/A	0 (0%)	1 (3.2%)	N/A	
requiring treatment							
Tendon rupture	0 (0%)	0 (0%)	N/A	0 (0%)	0 (0%)	N/A	
Fracture non-union	1 (1%)	0 (0%)	N/A	1 (1.2%)	0 (0%)	N/A	
at 6 months							
Implant failure	0 (0%)	0 (0%)	N/A	0 (0%)	0 (0%)	N/A	
Complex regional	0 (0%)	0 (0%)	N/A	0 (0%)	0 (0%)	N/A	
pain syndrome							
Death	1 (1%)	0 (0%)	N/A	2 (2.3%) ^b	0 (0%)	N/A	

^a Risk ratios are expressed as VLP fixation versus CR and 24 months ^b New complication occurred between 12 and 24 months.