

LETTER TO THE EDITOR

Benefits of Either Operative or Non-Operative Treatment for Perilunate Dislocation and Fracture Dislocations

Dear Editor

We read the article by Bagheri *et al* with great interest (1). We found the study interesting and comprehensive as four groups of patients, including operative and nonoperative in either pure dislocation or fracture dislocation, were compared in terms of Mayo wrist score, Grip strength, range of motion and radiographic parameters. It seems that the results were comparable

to studies by Capo, Chou, Laporte, Malovic, Kremer, Forli and Lutz (Table 1) (2-8).

In the studies listed above, all the patients were treated by operative fixation and none of them reported any experience with non-operative treatment (2-8). Their operative results are almost similar to Bagheri's operative results in which they demonstrated better outcomes in terms of motion and Mayo score than the

Table 1. studies around the world on the results of operative treatment after perilunate dislocation (PLD) and perilunate fracture dislocation (PLFD)

Authors	Year	Country	Op. vs. Non-op	No. of patients		Average F/U	Mayo score	PRWE score	DASH score	DJD	Arc of flex-ext	Grip strength	
Bagheri <i>et al</i> (1)	2013	Iran	Non-op	PLD	5	70.32 m	71				2	98.1°	
			Non-op	PLFD	9	69 m	71.1				3	96.6°	
			Op.	PLD	6	62.4 m	85				3	101.66°	
			Op.	PLFD	14	65.4 m	87.7				4	109.28°	
Capo <i>et al</i> (2)	2012	NJ, USA	Op.	PLD	13	6 m<			40/100	13	86°	59%	
			Op.	PLFD	12						78°		
Chou <i>et al</i> (3)	2012	Taiwan	Op.	PLFD	24	45 m	83				144°	84%	
Laporte <i>et al</i> (4)	2012	France	Op.	PLD	6	26 m		41	24.6/55			101°	71%
			Op.	PLFD	11								
Malovic <i>et al</i> (5)	2011	Croatia	Op.	PLFD	43	29 m	87						
Kremer <i>et al</i> (6)	2010	Germany	Op.	PLD	9	66 m	70				20	77°	70%
			Op.	PLFD	30								
Forli <i>et al</i> (7)	2010	France	Op.	PLD	11	13 y	77	13			8	94°	87%
			Op.	PLFD	7	13 y	74	35			4	98°	87%
Lutz <i>et al</i> (8)	2009	Austria	Op.	PLD	15	5 y	81.5	20.7					80-85%
			Op.	PLFD	10	5 y	82.7	27.7					

F/U=follow-up, PRWE=Patient-Rated Wrist Evaluation, DASH=Disabilities of the Arm Shoulder and Hand

DJD=Degenerative Joint Disease, Non-op=Non-operative, Op=Operative



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non-operative counterpart.

In the current study by Bagheri *et al*, non-operative treatment is also discussed, which has little literature support so far (1). We wonder what the indications were leading the patient and the surgeon electing nonoperative treatment versus operative intervention. Since the outcomes of non-operative care were comparable to the operative outcomes, weighing the benefits of non surgical management may be an area of further investigation. The authors didn't describe the operative intervention in detail making comparisons with other studies difficult. Therefore, we note the

need to compare different operative techniques in the literature to figure out which provide the most optimal outcomes and expedite patients' rehabilitation.

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