Appendix A. Subjective Findings (Pain, Patient-Reported Outcomes, and Satisfaction) before and after Proximal Interphalangeal Joint Implant Arthroplasty

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Authors	Evaluation	Preop Pain	Postop Pain	Evaluation	Pre PRO	Post PRO	Satisfaction
			Silico	one with volar ap	proach		
Proubasta et	VAS (0-10)	7.2	0.4	quick DASH	N/A	7	all patients satisfied
al. ⁹							
Lautenbach et		N/A	only one patient		N/A		4 (11%) patients dissatisfied
al. ¹⁰			had pain				
Bouacida et	VAS (0-10)	6.5	0.7	DASH	N/A	35	47% very satisfied, 21% satisfied,
al. ¹²							21% fairly satisfied, 4%
							dissatisfied, 7% very dissatisfied
Herren et al. ³¹	significant,	N/A	2 significant,		N/A		92% good, 8% satisfactory, 0%
	occasionally		3 occasionally,				poor
	, none		33 none				
Lin et al. ¹¹		N/A	97% relieved of		N/A		N/A
			pain				
Schneider ⁴⁴		N/A	the joints were		N/A		N/A
			painless				
			Silico	ne with lateral aj	pproach		
Merle et al. ¹³	VAS (0-10)	5.1	1.9	quick DASH	69.2	12.3	47% were not satisfied with
							cosmetic appearance
Stahlenbreche	painless,	0 painless,	37 painless, 11		N/A		59% very satisfied, 26% satisfied,
r et al. ¹⁴	load pain,	29 load	load pain, 0 rest				15% dissatisfied
	rest pain	pain, 15 rest	pain				
		pain					

Hage et al. 15			N/A	VAS (0-100) for daily function and ADL	N/A	72.1	N/A
			Silico	ne with dorsal ap	proach		
Daecke et al. ²¹	VAS (0-10) at rest, at maximal hand effort	3.9, 8.1	0.3, 0.7	DASH	57	19	N/A
Namdari et al. ⁴⁷	VAS (0-10)	N/A	1.5	MHQ	N/A	87 (total score)	88 (MHQ satisfaction), 6/11 very satisfied, 4/11 somewhat satisfied, 1/11 somewhat dissatisfied
Herren et al. ³¹	significant, occasionally , none	N/A	5 significant, 1 occasionally, 15 none		N/A		62% good, 19% satisfactory, 19% poor
Mathoulin et al. ³³		3 permanent pain, 18 incapacitati ng	18 no pain, 3 moderate pain, 0 permanent pain, 0 incapacitating		N/A		6 very satisfied, 13 improve, 2 worse
Silva et al. ³⁴		N/A	no pain in all		N/A		N/A
Cesari et al. ³⁵		N/A	19 no pain, 7 climatic pain, 1moderate pain [#]		N/A		N/A
Pellegrini et		N/A	no pain in all		N/A		only one patient was unhappy

Swanson et		N/A	pain relief by		N/A		N/A
al. ⁷			98.3%				
			Surface repl	lacement with vo	olar approach		
Jennings et		N/A	5 better, 1 worse		N/A		69% very satisfied, 21% fairly
al. ³²					T		satisfied, 10% not satisfied##
Stoecklein et	Scale of 1 to	N/A	2 (40%) patients	DASH	N/A	14	N/A
al. ²⁶	5		occasional pain				
			at a level of 3,				
			and 3 (60%)				
			reported a level				
			of 2 or less				
			Surface repl	acement with do	orsal approach		
Jennings et		N/A	26 better, 1		N/A		69% very satisfied, 21% fairly
al. ³²			unchange, 7				satisfied, 10% not satisfied##
			worse				
Lawson-Smith		N/A	none of the	DASH	N/A	28	all patients would have the surger
et al. ⁴⁸			patients				again
			complained of				
			significant pain				
Vogt et al. ⁴⁹	VAS (0-10)	7.3	1.4		N/A		7.5 (VAS 0-10)
Daecke et al. ²¹	VAS (0-10)	4.7, 6.8	0.5, 3.9	DASH	65	42	N/A
	at rest, at						
	maximal						
	hand effort						
Amirtharajah	MHQ (0-	N/A	22	DASH	N/A	17	70 (MHQ satisfaction)
et al. ²⁷	100)						
Luther et al. ⁵⁰	Pain free at	N/A	84%, 42% of	DASH	N/A	24*	70% satisfied
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	rest, on		patients				
	exercise		Î				
Johnstone et	VAS (0-10)	6.5	1		N/A		N/A
al. ⁵¹							
Dickson et	VAS (0-10)	N/A	0 (2y), 2 (5y)	PEM, DASH	N/A	34 (2y), 33	8 (2y), 7 (5y) (VAS 0-10)
al. ²³	at 2y, 5y			at 2y, 5y		(5y),	
						22 (2y), 35	
						(5y)	
Tagil et al. ³⁷	VAS (0-10)	3.4, 6.3	0.5, 2.0	DASH,	42, 4.5	28, 6.1	5.9 (COPM satisfaction)
	at rest,			СОРМ			
	during			performance			
	activity						
Reissner et	VAS (0-10)	7.6	1.4 (2y), 0.7	DASH,	N/A	24 (2y), 21	N/A
al. ⁴²			(10y)	PRWE		(10y), 20	
						(2y), 19	
						(10y)	
Daecke et al. ²¹	VAS (0-10)	6, 8.1	0.2, 2.7	DASH	68	48	N/A
	at rest, at						
	maximal						
	hand effort						
Desai et al. ⁵²	VAS (0-10)	8	2	DASH	N/A	30	4 (Likert Scale 1-5)
Heers et al. ²⁸	VAS (0-10)	N/A	38% free of		N/A		9/10 satisfied
			pain			_	
Ono et al. ²⁰	MHQ (0-	66	33	MHQ	43	63	51 (MHQ satisfaction)
	100)			(overall)			
McGuire et			pain relief was		N/A		4.2 (Likert Scale 1-5)

al. ⁵³			excellent				
Mashhadi et	VAS (0-10)	N/A	0.9		N/A		all patients would recommend the
Hutt et al. ²⁹	VAS (0-10)	4.2, 8.6	0, 0		N/A		N/A
	at rest, on						
	active						
	motion					1	
Sweets et al. ¹⁹	VAS (0-10)	N/A	3	MHQ (total	N/A	53 (involved	3.4 points on a 5-point Likert scale,
				score)		hand)	48 (MHQ satisfaction)
Meier et al. ⁵⁵	VAS (0-10)	N/A	0.9 at rest, 2.8		N/A		16/20 satisfied
	at rest, on		on weight				
	weight		bearing				
	bearing						
Bravo et al. ³⁸	VAS (0-10)	6	1		N/A		27/34 satisfied
Nunley et al. ³⁶	VAS (0-10)	6	4	DASH	32	35	3 very dissatisfied, 1 moderate
							dissatisfied, 1 moderate satisfied
Wesemann et	VAS (1-5)	N/A	80% of patients	DASH	N/A	29.5	most patients were well satisfied
al. ⁵⁶			improved				
Pettersson et	VAS (0-10)	3.0, 4.5, 6.3,	0.8, 1.9, 2.7, 3	COPM for	3.8	6.3	6.6 (COPM satisfaction)
al. ³⁹	at rest, after	7.2		performance			
	repeated						
	movement,						
	after lifting,						
	maximum						
	pain						

Schindele et	NRS (0-10)	7.9	1.1	quick DASH,	43, 51	15, 25	N/A
al. ⁴⁰				PEM			
Flannery et	VAS (0-10)	5.4	1.2	MHQ, quick	39, 42, 54	61, 34, 38	N/A
al. ⁴¹				DASH, PEM			

[#] including patients with other implants. ## mixed results with volar and dorsal approach. *median value.

PIP-proximal interphalangeal. VAS, Visual Analogue Scale. NRS, Numerical Rating Scale. ADL, Activities of Daily Living. DASH, Disabilities of the Arm, Shoulder and Hand. MHQ, The Michigan Hand Outcomes Questionnaire. PEM, Patient Evaluation Measure. COPM, Canadian Occupational Performance Measure. PRWE, Patient-Rated Wrist Evaluation. y, year. N/A, not available.