Adapted from:





Jill McAngus, MD www.familynfriendsortho.com

nysical Therapy	Zones 2-5	Flexor tendon	repair Protocol
J			- I

Timeline	Splint	Therapeutic Exercise	Precautions	Other
Week	Dorsal Blocking	Home exercise program:	No active	Wound
0-3	Splint	1. Passive composite full fist	flexion of	care
	a. Wrist	2. Passive DIP extension maintaining MCP and PIP in flexion	involved digits	
	neutral	3. Block MCP in full flexion and actively extend IP's	unless cleared	Edema
	b. MCP's 50°	4. Passive DIP flexion and active extension	for early active	control
	flexion	5. Passive PIP flexion and active extension	motion (EAM).	
	c. IP's in full	6. Isolated FDS glide of unaffected fingers		Scar
	extension	7. Passive (or gravity assisted) wrist flexion, followed by active	No passive	massage
		extension to splint limits.	wrist extension.	
	Reminder: If FDP			Note: If
	of MF, RF, or SF	Therapist performs with patient in clinic:	No passive	pulley
	repaired, must	1. Remove splint: passive wrist extension with fingers flexed.	finger	was
	include all three	2. Passive wrist flexion with passive hook fisting to prevent	extension,	repaired,
	digits in splint.	intrinsic tightness	except as noted	may need
			above.	pulley
		Early Active Motion Protocol:		ring
			No functional	fabricated.
		*If cleared by MD and suture of adequate strength (four strand core	use of involved	
		repair with epitendinous suture augmentation).	hand.	
		Reminders: Severe edema increases tendon drag and likelihood of		
		rupture.		
		Therefore, wait until 48-72 hours post-op prior to initiating ROM.		
		Tensile strength of tendons decreases from days 5 to 15.		
		Place/hold digital flexion with wrist extended in hook, straight and full fist positions.		

Copyright © 2007 The Brigham and Women's Hospital, Inc. Department of Rehabilitation Services. All rights reserved. (9/07)



Physical Therapy	Zones 2-5	Flexor tendon re	pair Protocol

Timeline	Splint	Therapeutic Exercise	Precautions	Other
Week 3	May initiate serial static PIP extension splints at night if needed.	Add place/hold if not yet done via EAM.1. Place/hold for hook, full and straight fist with wrist extended.2. Place hold for isolated FDS glide of involved digits.	Same as week 1-3 Place/hold exercises should be done with gentle tension only. Avoid muscle co- contraction by patient during place hold exercises.	
Week 4	Convert splint to hand based dorsal block splint.	Initiate active, non-resistive digital flexion and extension in all three fist positions with wrist extended.		Light prehensile activities OK in therapy.
Week 5	Discharge splint.	Add gentle blocking exercises for DIP/PIP flexion if needed.		Light prehensile activities OK at home.
Week 6	May initiate dynamic PIP extension splinting if needed.			May initiate NMES, therapeutic heating via ultrasound if needed.
Week 8		Gradually add resistive exercise to home program.		Functional use of hand, but consider strength, motion and sensory demands of task.

Reminder: Zone 5 injuries: Need to pay special attention to differential digit tendon glide (differentiating FDS and FDP tendons from one finger to another at the wrist level.)

Copyright © 2007 The Brigham and Women's Hospital, Inc. Department of Rehabilitation Services. All rights reserved. (9/07)