

This protocol is intended to provide the clinician with a guideline for the postoperative rehabilitation course of a patient who has undergone *Four-Corner Fusion or Proximal Row Carpectomy*. General time frames are given for reference to the average, but individual patients will progress at different rates depending on their age, comorbidities, pre-surgical range of motion, strength, health/functional status, rehabilitation compliance, learning barriers and complications. Specific time frames, restrictions and precautions are given to protect healing tissues and surgical reconstruction.

Wrist salvage procedures are performed to treat moderate to severe arthritis of the carpal bones with significant pain. They are most associated with progression of arthritic changes of the carpal bones as well as alignment due to non-union scaphoid fractures (scaphoid non-union advanced collapse (SNAC)), scapholunate ligament injury (scapholunate advanced collapse (SLAC)), avascular necrosis of lunate (Kienbock's Disease), and avascular necrosis of scaphoid (Preiser's disease). Usually these procedures are performed at the end stages of the conditions above (stage III or IV).



Phase I (7 to 10-14 days after surgery)

Rehabilitation appointments	• 1-2x/week or per therapist discretion
Rehabilitation goals and priorities	 Activities of daily living (ADLs) - within your restrictions Edema management Scar management
Suggested therapeutic exercises	 AROM of the wrist, forearm, and digits out of orthoses 3-5x/day Immobilization for 6 weeks. We will send you to therapy to have a thermoplast splint made at two weeks after surgery.
Precautions	 No lifting, pushing, or pulling more than 5 pounds with the involved extremity No weightbearing through the involved upper extremity
Orthotic Management	 Post op dressings removed. Fabrication of custom thermoplastic wrist cock-up orthosis Wear orthosis at all times except hygiene purposes and exercises
Progression criteria	Progress as pain allows

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Phase II (Post op 3 weeks)

Rehabilitation appointments	• 1-2/week or per therapist discretion
Rehabilitation goals and priorities	 Edema management Scar management Increase wrist motion while decreasing pain at wrist Independent with ADLs per restrictions
Suggested therapeutic exercises	Continue with AROM of the wristInitiate Dart Thrower's motion AROM of wrist
Precautions	 No lifting, pushing, or pulling more than 5 pounds with the involved extremity No weightbearing through the involved upper extremity
Orthotic Management	• Continue to wear orthosis at all times, except hygiene purposes and exercises.
Progression criteria	Progress as pain allows



Phase III (Post op 4 weeks)

Rehabilitation appointments	• 1-2x/week per therapist discretion
Rehabilitation goals and priorities	 Edema management Scar management Increase wrist motion while maintaining a low level or pain free wrist Independent with ADLs
Suggested therapeutic exercises	 Proprioceptive retraining of the wrist and hand Perform light activities without wearing orthosis Initiated wrist isometrics
Precautions	 No lifting, pushing, or pulling more than 5 pounds with the involved extremity No weightbearing through the involved upper extremity
Orthotic Management	Wean from orthosis during light activities
Progression criteria	Progress as pain allows



Phase IV (5 weeks post op)

Rehabilitation appointments	• 1-2x/week per therapist discretion
Rehabilitation goals and priorities	 Edema management Scar management Increase wrist ROM and strength while maintaining pain free wrist Independent with ADLs
Suggested therapeutic exercises	• Initiate gentle PROM of the wrist and forearm
Precautions	 Be cautious with aggressive PROM. Only perform to expected AROM – see additional notes below No lifting, pushing, or pulling more than 5 pounds with the involved extremity No weightbearing through the involved upper extremity
Orthotic Management	• Continue to wean from orthosis as able
Progression criteria	Progress as pain allows



Four-Corner Fusion vs. Proximal Row Carpectomy

Phase V (6 weeks post op)

Rehabilitation appointments	• 1-2x/week per therapist discretion
Rehabilitation goals and priorities	 Edema management Scar management Increase wrist ROM and strength while maintaining pain free wrist Independent with ADLs
Suggested therapeutic exercises	 Progress PROM to prolonged low load stretches with use of weight Initiate light strengthening without weights or bands, consider functionalmotion strengthening
Precautions	 Be cautious with aggressive PROM. Only perform to expected AROM – see additional notes below No lifting, pushing, or pulling more than 5 pounds with the involved extremity No weightbearing through the involved upper extremity
Orthotic Management	Completely wean from orthosis
Progression criteria	Progress as pain allows



Four-Corner Fusion vs. Proximal Row Carpectomy

Phase VI (8 weeks post op)

Rehabilitation appointments	• 1-2x/week per therapist discretion
Rehabilitation goals and priorities	 Scar management A stable wrist Independent with ADLs
Suggested therapeutic exercises	 Progressive strengthening with use of putty/hand exerciser, weights, abd nds Can initiate dynamic orthosis at this time if AROM gains are poor
Precautions	No restrictions at 10-12 weeks.
Orthotic Management	Discontinue orthosis
Progression criteria	Discharge from therapy.Independent in ADLs and IADLs.