

☐ Frisbie Memorial Hospital ☐ Marsh Brook Rehabilitation Services ☐ We	entworth-Douglass Hospital
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# CLINICAL PROTOCOL FOR EARLY PASSIVE MOBILIZATION PROGRAM EXTENSOR TENDON ZONE 5-6 (EPL 4-5)

**PURPOSE:** "Applying controlled stress to the healing extensor tendon by promoting intrinsic

healing... To encourage longitudinal reorientation of adhesions associated with

extrinsic healing."

**FREQUENCY:** 1-3 times per week.

**DURATION:** Average estimate of formal treatment 1-3 times per week over 6-12 weeks based

on Occupational Therapy evaluation findings.

**DOCUMENTATION:** Progress Note to physician at each follow-up appointment. Follow treatment

calendar for daily requirements. Discharge Summary within 2 weeks of discharge.

# **VISIT ONE (3-5 DAYS POST-OP):**

# SPLINT:

Volar splint with wrist positioned at 40-45° dorsiflexion

- MP and IP at 0°; removable foam block at 30° used with exercise and at night
- Dorsal splint: Outrigger dynamic portion for day and remove at night
- Thumb (EPL) MP at 0° and IP with wedge at 60° (or within comfortable available range of motion)

## **HOME EXERCISE PROGRAM:**

- 10-20 repetitions per waking hour
- Remove block and perform active flexion and dynamic passive extension via outrigger

#### **1-2 WEEKS:**

#### SPLINT:

Continue and adjust as appropriate

#### HOME EXERCISE PROGRAM:

Continue as above

## THERAPY:

- In-clinic wound care/scar management
- Edema control techniques
- Hygiene care

Rehab 3: One High Standard, Three Local Partners For more information go to www.rehab-3.com

# 2 WEEKS:

#### SPLINT:

• Continue as above

#### HOME EXERCISE PROGRAM:

• Add active hooks in splint – slide loops to proximal phalanx

#### THERAPY:

- Continue as above
- Add modified tenodesis (relaxed hand, fully extended wrist, and bring wrist to neutral with simultaneous finger extension)
- Controlled passive motion (with wrist and MP fully extended)
  - (a) Gentle passive range of motion to each IP joint
  - (b) MP flexed to  $40^{\circ}$  followed by simultaneous wrist flexion to  $20^{\circ}$

# 3 WEEKS:

# SPLINT:

· Continue as above.

#### HOME EXERCISE PROGRAM:

- Continue with dynamic assist program
- Active hook in splint
- Add active MP flexion and extension within the confines of the splint

#### THERAPY:

- Continue as above.
- Elastomer pad
- · Ultrasound as indicated and full wrist tenodesis

# 4 WEEKS:

# SPLINT:

- Continue as above
- At 41/2 weeks, remold volar splint to MP and IP to 0° and discontinue dorsal splint

#### HOME EXERCISE PROGRAM:

- Out of splint active range of motion to include composite fist from hook position
- Intrinsic to composite and wrist range of motion

#### THERAPY:

- Continue as above.
- Fluidotherapy
- · Modalities as indicated
- Wrist/Forearm range of motion
- Re-evaluate active range of motion measures for the first time (physician note)

# 5 WEEKS:

#### SPLINT:

· Remove for light activities/tasks and continue at night

# HOME EXERCISE PROGRAM:

- Out of splint activities
- Continue with range of motion as above

# THERAPY:

- Continue as above
- Functional activities

# **6 WEEKS:**

# SPLINT:

- Discontinue at night if full extension
- · Light wrist strengthening as indicated

# HOME EXERCISE PROGRAM:

• Continue as above

# THERAPY:

- Scar management
- Range of motion exercises
- Functional tasks
- Light strengthening

# 8 WEEKS:

#### SPLINT:

• Discontinue splint

# HOME EXERCISE PROGRAM:

• Continue as above

#### THERAPY:

- As indicated per re-evaluation findings
- Strengthening per physician recommendations

## **REFERENCES:**

- 1) Evans, R.B. Therapeutic Management of Extensor Tendon Injuries, Hand Clin 2:157, 1986.
- 2) Hunter, Mackin, Callahan. *Rehabilitation of the Hand: Surgery and Therapy*, 5<sup>th</sup> Edition, Vol. 1. Evans, R.B. *An Update on Extensor Tendon and Tendon Management*, pg. 562-568.