

Becker Rotation Adjustable Elbow Orthosis



The Becker Rotation Adjustable Elbow Orthosis was designed by Nicole M. Weiss, CO, OTR, FAAOP to address the need for managing forearm rotation contractures using a static progressive stretching protocol¹. The **BRAE** can be adjusted to incrementally increase forearm rotation. This orthosis will be useful for treatment of forearm contractures as a result of upper extremity fractures and injuries including distal radius fractures, elbow dislocations, wrist ligament injuries, radial head fractures and dislocations.

Forearm rotation is adjusted by means of a dual offset channel with a patented overlapping adjustable rotation component.

BENEFITS:

- Maintains post surgical forearm rotation positioning
- Decreases substitution that can result from improper alignment of mechanical axis to anatomical axis for forearm rotation
- Maintains static progression of infinite positions in both supination and pronation
- Easy to apply and can be worn during functional activities
- Controls forearm rotation position while allowing free motion in the sagittal plane (flexion and extension)

1. Parent-Weiss NM, King JC. Static progressive forearm rotation contracture management orthosis design: a study of 28 patients. J Pros Orth 2006.

APPLICATIONS:

- Post-operative static progressive stretching protocols
- Conservative (non-operative) static progressive stretching protocols (contracture management)
- Forearm rotation motion limitations (e.g. Prevention of supination for post-operative lateral elbow ligament repair)
- Medial/lateral control of elbow while allowing free motion of forearm rotation
- Limitations of motion to prevent strain following forearm injury

CONTRAINDICATIONS:

- Structural instability or bony incongruity
- Heterotopic Ossification



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