

ELLIOTT™ Lower limb trial & longterm orthosis

Tomorrow's technology for today's patients!

KEY

- a & b) Description of primary orthosis
 - i) Feature
 - (1) Function of feature
 - (a) Application
 - (i) Specific application

One KAFO (Knee Ankle Foot Orthosis) variations ELLIOTT™ –

- a) **ELLIOTT™** features KAFO with 3 AFO combinations. All 3 AFO segments can be used independently from KO segment by releasing Velcro strap on back of lower AFO calf section.
 - i) KAFO
 - (1) Stabilizes knee and ankle through its posterior upright design, lining and strapping system
 - (a) Secure and stable quick fit design
 - (b) Total adjustability to accommodate the patient's motor and sensory progress and size
 - (c) True 3 point pressure system unlike any other pre fabricated design
 - (d) Removable liner and straps for washing and easy replacement
 - (2) Offloads heel and bony areas found on the medial and lateral borders of the knee, ankle and foot
 - (a) Minimizes pressure concerns on those patients having lack of sensation, poor or sensitive skin integrity
 - (3) Provides sensory feed back
 - ii) TRANSCONNECTOR™ quick disconnect mechanism is attached to the AFO calf section.
 - (1) Allows for quick disconnect of 1 of 3 different AFO segment for independent use to accommodate the patients improving motor and or sensory function.
 - iii) PENTAGON™ KO – With Drop lock, Ratchet, Variable ROM (Range Of Motion), Lock-Out and Free motion capabilities
 - (1) Drop Lock – locks out knee joint when patient obtains full extension
 - (a) Stabilizes knee extensor and or hip extensor weakness
 - (b) Provides stability to offset musculoskeletal compromise
 - (i) Fractures
 - (ii) Ligament and tendon injury
 - (iii) Post operative immobilization



- (2) Ratchet
 - (a) Static progressive stretch for contracture management
 - (b) Stabilizes knee when transitioning from sitting to a standing position by blocking knee flexion while allowing active or passive knee extension.
 - (3) ROM
 - (a) Infinitely adjustable ROM flexion and extension stops from 0° to 110°
 - (b) Provides a bi-directional static progressive stretch to the knee
 - (i) Contracture management of the knee
 - (c) Adjustable flexion stop
 - (i) Accommodates musculoskeletal limitations post operatively
 - (d) Adjustable extension stop
 - (i) Offsets knee hyperextension
 - (ii) Accommodates musculoskeletal limitations post operatively
 - (4) Locked
 - (a) Total immobilization in any position from 0° to 110°
 - (b) Post operative treatment
 - (5) Free Motion
 - (a) Allows for uninhibited ROM from 0° to 110° while stabilizing the patients knee joint.
- iv) 3 individual AFO options - Can be used as an independent AFO or as part of the KAFO system
- (1) RIBBY® Multi-Jointed AFO
 - (a) Free dorsiflexion/plantarflexion stop 90°
 - (b) Smooths transitional movements
 - (i) Sit to stand
 - (ii) Normal tibial progression during ambulation
 - (c) Locked ankle capability
 - (i) Stabilizes ankle
 - (ii) Provides knee stability indirectly
 - (d) Adjustable dorsi and plantarflexion angles APU® joint
 - (i) Offsets foot drop
 - (ii) Offsets knee hyperextension
 - (iii) Facilitates extension moment at the knee
 - (e) Provided with open toe shoe
 - (i) Secures AFO to patients extremity
 - (ii) Can be worn in conventional shoe
 - (f) Quick disconnect Kodel lined foot section
 - (i) Soft tissue containment
 - (ii) Accommodates fluctuating edema

- (2) ABBY™
 - (a) Adjustable Inversion and Eversion
 - (i) Accommodates deformity
 - (ii) Creates floor reaction moment to promote righting response
 - (b) Adjustable dorsi and plantarflexion angles APU®
 - (i) Offsets foot drop
 - (ii) Offsets knee hyperextension
 - (iii) Facilitates extension moment at the knee
 - (c) Provided with open toe shoe
 - (i) Improves foot control by securing AFO to patient's extremity
- (3) TERRA™ with heavy duty upright
 - (a) Rigid posterior upright
 - (i) Indicated for patients with higher tone / spasticity
 - (ii) Indicated for patients with flaccid ankle
 - (b) Adjustable dorsi and plantarflexion angles APU® joint
 - (i) Offsets foot drop
 - (ii) Offsets knee hyperextension
 - (iii) Facilitates extension moment at the knee
 - (c) Provided with open toe shoe
 - (i) Improves foot control by securing AFO to patient's extremity

- Convenient features:**
- All variations are available in a definitive design for long term applications
 - Simple adjustment to match mechanical joint axis with the patient's joint axis
 - Single jointed posterior superstructure
 - Simple removable lining and straps for washing or replacement
 - Can be wiped down for sanitizing
 - Open cell terry cloth liners
 - Quick disconnect buckles / heavy-duty strapping
 - Stable and safe walking base / soling
 - Open toe shoe for increased foot control when necessary
 - Adult and Pediatric sizes



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