GUIDELINE

#### Purpose:

This guideline is designed to return the individual to their full activities as quickly and safely as possible following a Modified Broström Procedure with an internal brace. Modifications to this guideline may be necessary dependent on physician specific instruction or other procedures performed. This evidence-based guideline is criterion-based; time frames and visits in each phase will vary depending on many factors. The therapist may modify the program appropriately depending on the individual's goals for activity following a Modified Broström Procedure with an internal brace

This guideline is intended to provide the treating clinician with a frame of reference for rehabilitation. It is not intended to substitute clinical judgment regarding the patient's post-operative care based on exam/treatment findings, individual progress, and/or the presence of concomitant procedures or post-operative complications. If the clinician should have questions regarding post-operative progression, they should contact the referring physician.

PHASE	SUGGESTED INTERVENTIONS	MILESTONES FOR PROGRESSION
Phase I Weeks 0-4	Immobilization:         • Cast or walking boot         WB Status:         • Weeks 0-2: Non-weight bearing         • Weeks 2-4: WBAT in walking boot         Therapy         Weeks 0-2:         • NWB in boot         • Hip, knee and core strengthening         • Toe curls, toe extension, toe spreads         • Cryotherapy compression         • Ankle PF/DF ROM to tolerance         — Focus on slow controlled movement         • Bike in boot         Weeks 2-4:         • Transfer and gait training with optimal AD         • Sub-max., pain-free isometrics in neutral (all planes)         • Low level double proprioception- weight shifting, reaching, perturbations	<ul> <li>Goals:</li> <li>Edema control/reduction</li> <li>Protection of surgical site</li> <li>Independence with safe mobility</li> <li>Criteria to Advance:</li> <li>Reduction in pain and edema</li> </ul>
<b>Phase II</b> Weeks 4-8	WB Status: — FWB	<ul><li>Goals:</li><li>Protection of the repair</li></ul>

## Modified Broström Procedure

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	<ul> <li>Start in walking boot and progress to semi-rigid ankle stirrup orthotic</li> <li>Precautions:         <ul> <li>Avoid mobilizing talocrural and subtalar joints</li> </ul> </li> <li>Therapy:         <ul> <li>Weeks 4-6:</li> <li>Multi-angle ankle sub-max isometric strengthening in all planes</li> <li>AROM and AAROM for all planes of ankle mobility</li> <li>Continue proprioception activities involving double leg stance</li> <li>Gait training progressing to full weight bearing, weaning from AD, progressing to ankle brace</li> <li>NuStep, Alter-G</li> <li>Continue with hip, knee and core strengthening</li> <li>Light soft tissue mobilization as indicated</li> <li>Metatarsal joint mobilizations as indicated, avoid mobilizing talocrural and subtalar joints</li> </ul> </li> <li>Weeks 6-8:         <ul> <li>Progress strengthening with bands for dorsiflexion, plantarflexion, eversion, inversion</li> <li>Progress proprioception activities from double leg to single leg stance</li> </ul> </li> </ul>	<ul> <li>Normalized gait pattern with walking boot</li> <li>Prevention of scar adhesions</li> <li>Criteria to Advance: <ul> <li>Normalized gait without pain with involved ankle in ankle brace</li> <li>Pain-free eversion against gravity</li> </ul> </li> </ul>
Phase III Weeks 8-12	<ul> <li>Precautions: <ul> <li>No plyometrics until week 11</li> </ul> </li> <li>Therapy: <ul> <li>Ankle AROM in all planes with alphabet, circles, BAPS board, etc.</li> <li>Standing BAPS board</li> <li>Gastrocnemius/soleus stretching</li> <li>Advance proprioception and balance to unilateral stance, varied surface, perturbations and dual task</li> <li>Gait: <ul> <li>Forward march</li> <li>Backward march</li> <li>Side stepping</li> <li>Backward stepping</li> </ul> </li> <li>Bike, elliptical</li> <li>Soft tissue mobilization and grade I-III joint mobilizations as indicated to talocrural and subtalar joints</li> </ul> </li> </ul>	<ul> <li>Goals:</li> <li>Full ankle ROM</li> <li>5/5 strength in all ankle muscle groups</li> <li>Normalized, pain-free gait on even, uneven surfaces and stairs <ul> <li>With or without ankle orthoses as needed</li> </ul> </li> <li>No apprehension with high level activity or direction changes</li> </ul> Criteria to Advance: <ul> <li>Full ankle strength on manual muscle testing</li> </ul>

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	<ul> <li>Closed chain strength strengthening-focusing on retraining functional movements including squatting, hinging, bridging, lunging, heel raises</li> <li>Plyometrics:         <ul> <li>Delay plyometric progression until patient can complete 10 repetitions pain-free</li> <li>Horizontal leg press jumps</li> <li>Bilateral jumps:</li></ul></li></ul>	Single leg balance equal to contralateral side
Phase IV Weeks 12-16	<ul> <li>Precautions:</li> <li>Continue ankle brace during sports for 6 months for increased stability and proprioception</li> <li>Therapy:</li> <li>Initiate jogging with progression to running (Alter-G as needed)</li> <li>Jump rope</li> <li>Proprioception, plyometric and change of direction drills starting in AP plane and progress to lateral movements and diagonals: <ul> <li>Retro jog</li> <li>Side shuffle</li> <li>Carioca</li> <li>Bounding</li> <li>Jog-sprint-jog</li> <li>Figure 8s</li> <li>45° cuts, 90° cuts</li> <li>Single leg hop for distance &amp; for time</li> </ul> </li> </ul>	<ul> <li>Goals:</li> <li>No apprehension with sport-specific drills and activities</li> <li>Stability with high velocity movements</li> <li>Return to Sport:</li> <li>May return to sport after receiving clearance by orthopedic surgeon along with PT/AT</li> </ul>