

Sport EXT Rehabilitator®

Indications

The Sport EXT Rehabilitator® is designed to provide medial, lateral, and rotational support of the knee joint, and is indicated for the effective treatment of knee injury or post-surgery related extension deficits in gait / flexion contractures. The Sport EXT Rehabilitator provides ambulatory active extension stretch while the patient walks in the device. Over time, shortened flexors can be lengthened as a result of the active stretching mechanism of the device. The Sport EXT Rehabilitator has bilateral Range of Motion hinges that can be set to control knee flexion/extension if needed. The patient must be ambulatory to benefit from the active extension stretching provided by the brace.

Therapeutic Actions

The Sport EXT Rehabilitator is a gait correcting, leg strengthening knee brace providing medial, lateral, and rotational control of the knee joint while providing an active extension stretch with each step taken in the device. The Rehabilitator design includes an adjustable extension assist mechanism to provide active extension stretching of the flexors during gait. Range of motion hinges allow for controlled flexion/extension of the knee if needed. Pneumatic pads are located on the anterior thigh and the posterior calf to assist in realignment of a subluxed knee joint. Pneumatic condyle pads are also located at the knee condyles. When all four pneumatic pads are properly inflated, the patient receives an active “glide” extension stretch with each step. The Sport EXT Rehabilitator simultaneously lengthens the shortened hamstrings while strengthening the weakened quadriceps to provide effective therapy for post-surgical related extension deficits in gait or post-operative flexion contractures.

Contraindications

The Sport EXT Rehabilitator should not be applied if any part of the device comes in contact with an open wound. The patient must be ambulatory to benefit from the use of a Rehabilitator Knee Brace. A Rehabilitator should not be applied if significant knee swelling negatively affects a properly fit brace.

Warnings

The Sport EXT Rehabilitator should be fit by trained personnel to ensure that the device is fitted correctly. Wearing time should be determined by a physician. A brace adaptation wear in schedule is recommended during the initial stages of brace use.

After the Sport EXT Rehabilitator is removed, the limb should be inspected for redness or signs of unwanted pressure or shear. All redness or skin indentations should be absent within an hour after device removal.

Never apply the Sport EXT Rehabilitator if there are red areas on the patient's skin that may indicate unwanted pressure or shear has been applied by the device. A knee brace undersleeve which is applied prior to knee brace application may be required to adequately protect the skin from shear forces. Resume wear after the redness has disappeared. If redness persists, the device should be inspected by a licensed clinician and modified to eliminate any potential pressure or shear.

The Guardian Sport EXT Rehabilitator® is intended to be for Single Patient Use Only