

SME Clinic

Orthotic Recommendations for Pediatric Diagnoses

Diagnosis

Orthotic Rx Recommendation

Metatarsus Adductus
(Minimal Forefoot Abduction)

Bebax Shoe; or Reverse Last Footwear

Metatarsus Adductus
(Maximum Forefoot Abduction)

Ankle-Foot Orthosis (AFO); Solid Ankle; Custom Molded

Talipes Equinovarus
(Post-Surgical Correction)

Ponseti AFO; Markell Tarso Clubfoot AFO; or Solid Ankle AFO with Dobbs Dynamic Clubfoot Bar; Horton Click Bar or Traditional Denis Browne Bar

Vertical Talus

Ankle-Foot Orthosis (AFO); Solid Ankle; Custom Molded

Talipes Calcaneovalgus

Ankle-Foot Orthosis (AFO); Articulating Ankle; Custom Molded

Tibial Pseudarthrosis

Ankle-Foot Orthosis (AFO); Bi-Valved; Solid Ankle; Custom Molded

Developmental Dysplasia of the Hip
(Birth to 6 Months)

Pavlik Harness

Developmental Dysplasia of the Hip
(Infant to 3 Years)

Rhino "Cruiser" Hip Abduction Brace

Arthrogryposis Multiplex Congenita

Standing Frame; Knee-Ankle-Foot Orthosis (KAFO); or Hip-Knee-Ankle-Foot Orthosis (HKAFO; Custom Molded); (Indicated for Enabling Standing or Walking)

Osteogenesis Imperfecta

Ankle-Foot-Orthosis (AFO) or Knee-Ankle-Foot Orthosis (KAFO); Custom Molded; (Indicated to Maintain Structural Alignment and Protect the Limbs during Standing and Walking)

Down Syndrome

Supramalleol Orthosis (SMO); Custom Molded or Ankle-Foot Orthosis (AFO); Articulating Ankle; Custom Molded

Marfan Syndrome

Foot Orthosis (FO); Total Contact; Semi-Rigid or Rigid; Custom Molded

Pes Planovalgus
(Asymptomatic)

Ankle-Foot Orthosis (AFO); Nighttime; Solid Ankle; Custom Molded

Pes Planovalgus
(Symptomatic)

Ankle-Foot Orthosis (AFO); Nighttime; Solid Ankle; Custom Molded

-and-

Diagnosis

Orthotic Rx Recommendation

	Foot Orthosis (FO); Daytime; Total Contact; Semi-Rigid or Rigid; Custom Molded
Pes Planovalgus (Rigid)	UCBL; Total Contact; Semi-Rigid; Modified Type; Custom Molded
Hallux Valgus	Hallux Valgus Splint; Nighttime -and- Foot Orthosis (FO); Daytime; Total Contact; Semi-Rigid; Custom Molded
Accessory Navicular	UCBL; Total Contact; Semi-Rigid; Modified Type; Custom Molded
Sever's Disease	Ankle-Foot Orthosis (AFO); Articulating Ankle; Passive Dorsi-flexion Assist Straps; Custom Molded -and- Foot Orthosis (FO); Total Contact; Semi-Rigid; 3/16" Heel Lift; Custom Molded
Toe Walking	Ankle-Foot Orthosis (AFO); Articulating Ankle; Posterior Plantar Stop; Custom Molded
Internal Tibial Torsion	Knee-Ankle-Foot Orthosis (KAFO); Nighttime; Tibial Component Set at Maximum External Rotation; Custom Molded
External Tibial Torsion	Knee-Ankle-Foot Orthosis (KAFO); Nighttime; Tibial Component Set at Maximum Internal Rotation; Custom Molded
Femoral Anteversion	Hip-Knee-Ankle-Foot Orthosis (HKAFO); Nighttime; Torsion Cable System Attached to Solid Ankle AFOs Set at Maximum External Rotation; Custom Molded
Tibial Varum and Blount's Disease	Knee-Ankle-Foot Orthosis (KAFO); Daytime and Nighttime; Lateral Corrective Force to Proximal Tibia; Custom Molded
Knee Pain and Patella Instability	Patella Tracking Orthosis (PTO)
Legg-Calve-Perthes Disease	Scottish Rite Hip Abduction Orthosis; Maple Leaf Orthosis; or Newport Jr. Hip Orthosis
Leg Length Discrepancy	Inside Shoe Heel Lift (Up to ½") External Heel to Toe Shoe Sole Build-up (1/2" and Greater)
Juvenile Idiopathic Arthritis	Foot Orthosis (FO); Total Contact; Semi-Rigid; Custom Molded
Haemophilia	Foot Orthosis (FO); Total Contact; Accommodative; Custom Molded
Cerebral Palsy (Correction and Prevention of Deformity)	Ankle-Foot Orthosis (AFO); Solid Ankle; Custom Molded; to be Worn up to Six Hours Per Day

Diagnosis

Cerebral Palsy

(Spastic Hemiplegia-Type I; Equinus Only in Swing Phase)

Cerebral Palsy

(Spastic Hemiplegia-Type II; Equinus in Stance And Swing Phase with Knee Hyperextension)

Cerebral Palsy

(Spastic Diplegia-“Crouching”)

Cerebral Palsy

(Neuromuscular Scoliosis)

Cerebral Palsy

(Hip Subluxation)

Duchenne Muscular Dystrophy

(Early Ambulatory Phase with Signs of Toe Walking)

Duchenne Muscular Dystrophy

(Late Ambulatory Phase)

Duchenne Muscular Dystrophy

(Non-Ambulatory Phase)

Spinal Muscular Atrophy

(Type I-Severe)

Spinal Muscular Atrophy

(Type II-Intermediate-Inability to Walk or Stand)

Spinal Muscular Atrophy

(Type III-Mild)

Myelomeningocele

(Thoracic and High Lumbar Level)

Myelomeningocele

(Low Lumbar Level)

Orthotic Rx Recommendation

Ankle-Foot Orthosis (AFO); Posterior Leaf Spring (PLS) or Articulating Ankle with Posterior Plantar Stop; Custom Molded

Ankle-Foot Orthosis (AFO); Solid Ankle or Articulating Ankle with Posterior Plantar Stop (If There Is a Reasonable Range to Dorsiflexion); Custom Molded

Ankle-Foot Orthosis (AFO); Floor Reaction; Solid Ankle; Custom Molded

Thoracolumbar-Sacral Orthosis (TLSO); Semi-Rigid; Flex Foam; Custom Molded

Hip Abduction Orthosis

Ankle-Foot Orthosis (AFO); Nighttime; Articulating Ankle; Posterior Plantar Stop; Passive Dorsiflexion Assist Straps; Custom Molded

Knee-Ankle-Foot Orthosis (KAFO); Ischial Bearing; Trigger Lock Knee Joints; Custom Molded

“Prevention of Progressive Foot Deformity”
Ankle-Foot Orthosis (AFO); Daytime; Solid Ankle; Custom Molded

Thoracolumbar-Sacral Orthosis (TLSO) with Diaphragmatic Aperture; Custom Molded

“Dependent on Child’s Proximal Muscle Strength”
Standing Frame with Solid Ankle AFO; Reciprocating Gait Orthosis (RGO); or Knee-Ankle-Foot Orthosis (KAFO); Custom Molded

Foot Orthosis (FO) or Ankle-Foot Orthosis AFO; Custom Molded; (Based on Ankle Stability During Standing and Walking)

-or-

Knee-Ankle-Foot Orthosis (KAFO); Custom Molded; (Based on Prolonged Periods of Immobility)

Standing Frame (Introduced around 12 Months of Age)
Parapodium (Introduced around 2 Years of Age)
Reciprocating Gait Orthosis (RGO);(Considered When the Child Has Hands-Free Sitting Balance and Minimal Spinal Deformity)

Knee-Ankle-Foot Orthosis (KAFO); Custom Molded; (Indicated for Greater Control of Knee Varus or Valgus Deformities)

-or-

Diagnosis

Orthotic Rx Recommendation

Hip-Knee-Ankle-Foot Orthosis (HKAFO); Torsion Cable System Attached to Solid Ankle AFOs; Custom Molded; (Used to Control Rotational Deformities of the Lower Extremities)

-or-

Ankle-Foot Orthosis (AFO); Floor Reaction; Solid Ankle; Custom Molded; (Indicated for Excessive Knee Flexion During Stance)

-or-

Ankle-Foot Orthosis (AFO); Solid Ankle; Custom Molded; (Indicated when Quadriceps Muscle Test Grade is 3/5 or Greater, and Hamstrings Test Grade is 2+/5)

Ankle-Foot Orthosis (AFO); Solid Ankle; Custom Molded; (Indicated for Weak Ankle Plantarflexors)

Supramalleolar Orthosis (SMO); Custom Molded; (Indicated for Ankle Instability, but Plantarflexion Strength and Endurance are Enough to Prevent Crouch Gait)

-or-

Foot Orthosis (FO); Total Contact; Semi-Rigid; Custom Molded; (Indicated when Control of Foot Posture Is All That Is Required)

Myelomeningocele
(High Sacral Level)

Myelomeningocele
(Low Sacral Level)