

ORTHOTICS

An orthotic is a device which is applied externally to a body part in order to ~~facilitate~~ ^{improve} function by

Supporting

Correcting

Compensating for skeletal deformity or weakness

Classification

Static or Dynamic

Supportive or corrective

1980 Department of Health
& Social Security

Biomechanics

3 direct: Control of Moments about a jt (Medial off loader brace)
translation (PCL brace)

axial forces

Bohler walker

Indirect: Control of line of action of GRF (lat Heel wedge for Medial knee OA)

eg

Insole contouring on effect on hindfoot, midfoot & forefoot

Pavlik harness (Prevent extension & adduction)

~~Mitchell~~ Dennis - Browne boots

Duran splint (flexor tendon rehab)

Derco shoe

ORow (cheek restraint walker)