

allard<sup>USA</sup>

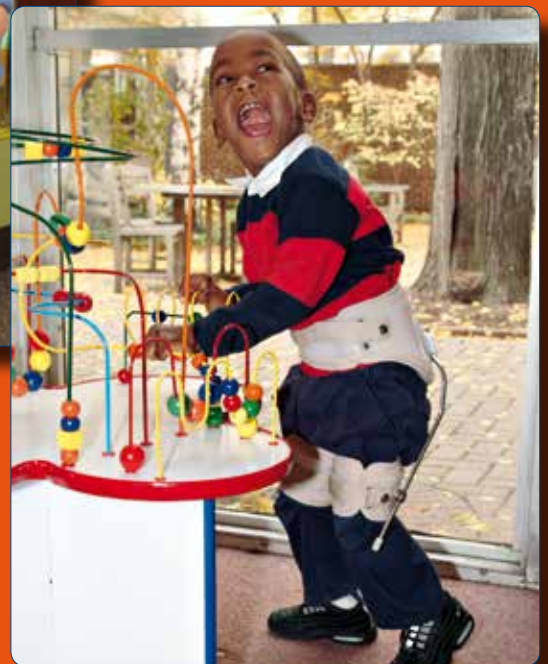
# S.W.A.S.H.<sup>®</sup>



SITTING



WALKING

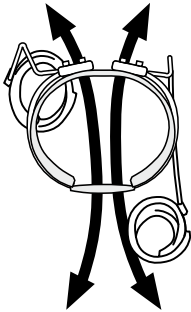


AND STANDING

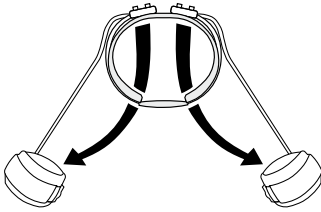
# HIP ORTHOSIS

# Increase Levels

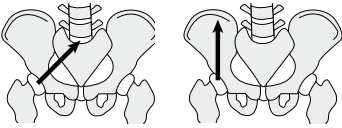
What makes SWASH unique to other hip orthoses is that it offers controlled variable abduction. It is engineered with a complex series of angles to maintain good hip alignment as the uprights follow the pathways of motion of the femurs.



While standing or walking, SWASH provides just enough abduction to prevent scissoring and medial femoral rotation.



As the hips are flexed to assume the sitting position, it automatically further abducts the hips to create a tripod base for enhanced sitting stability and more upright posture.



With

Without

The most visible benefits of the SWASH are readily apparent by improvements in sitting and standing posture and stability, and for the ambulatory user, improvement in gait. However, perhaps the most important benefit the SWASH offers is guidance for hip alignment.





# Of Function

## S.W.A.S.H.<sup>®</sup>

- is a hip stabilization and sitting orthosis
- can offer significant benefits for both non-ambulatory and ambulatory children
- can work for neuromuscular disorders other than just Cerebral Palsy
- can work for children with severe involvement as well as mild
- is available in sizes that fit infants to small adults
- does not interfere with children's ability to play
- does not interfere with most walkers, wheelchairs, or even standing frames

Developmental Medicine & Child Neurology, AACPDM, Abstracts 2003, No. C:2, page 10. Roslyn Boyd MSC PT, H Kerr Graham MD, Gary Natrass MD, Dinah Reddihough MD, Pam Thomason PT, Fiona Dobson PT, Jenny Parrott PT, Kevin Lowe MD, Ann Lancaster PT, Alfield Larsen MD, Jenine Oates PT, Jane Valentine MD, Sarah Love PT, John Carlin PHD, and Members of the Multicentre Hip Study Team, Mac Keith Press, London UK.

A 3-year, randomized multicenter trial with concealed allocation to either BTX-A and bracing or observation. Ninety children with bilateral spastic cerebral palsy with hips at risk (migration percentage  $MP > 15 < 40\%$  at entry) were entered.

### CONCLUSION:

*“Injections of BTX-A combined with SWASH bracing reduces hip displacement and delays or prevents the need for orthopaedic surgery.”*



# Two Styles Of Orthoses To Meet Different Patient Needs



**Original**

- Plastic pelvic section extends from L2/L3 to the coccyx, providing maximum torso support for candidates with flaccidity or very limited trunk control
- Single strap fixed front closure to secure torso support
- Increased posterior and side support
- "Childproof" thigh cuff closure
- Proven results in several different independent studies
- Available with 115° or 123° uprights



**Low Profile II**

- Anatomically shaped metal pelvic section rests over the pelvis and is secured in position by attaching to a small plastic reinforced abdominal pad
- Double strap front closure allows symmetrical application
- 8 mm diameter uprights in all sizes - extra strong for extra high tone
- Interchangeable thigh cuff sizes
- Overlap design thigh cuff closure for easy application and removal
- Contoured posterior joints reduce interference with posterior walkers and other standing/walking/sitting aids
- Available with 115° or 123° uprights

## Two Options For Upright Selection

### More abduction in sitting

Increased abduction offers maximum opportunity for muscle lengthening in the sitting position and is also recommended when there is need to influence the trunk toward more spinal extension.



### Less abduction in sitting

Reduced abduction better accommodates wheelchairs with narrow seat structures and is better tolerated by children with tight adductor muscles.



### SWASH® SIZING CHART

Dimensions in mm.		Pelvic Section Circumference	Thigh Cuffs Circumference	Leg Bar	
				Length	Diameter
<b>SWASH® CLASSIC</b>	SIZE 1	400 - 465	210 - 250	310	6
	SIZE 1A				7
	SIZE 2	460 - 550	250 - 290	375	7
	SIZE 3	540 - 630	290 - 330	440	7
	SIZE 4	620 - 720	330 - 380	480	7
<b>SWASH® LOW PROFILE II</b>	SIZE 1	400 - 465	210 - 250	310	8
	SIZE 2				8
	SIZE 3	540 - 630	290 - 330	440	8
	SIZE 4	620 - 720	330 - 380	480	8
	SIZE 5	710 - 810	380 - 440	540	8
	SIZE 6	800 - 900	440 - 500	600	8

SWASH is jointly owned by CAMP Scandinavia AB in Sweden and Prim S.A in Spain. For a more detailed technical information see [www.ortoprimer.com](http://www.ortoprimer.com) or [www.campscandinavia.se](http://www.campscandinavia.se) under SWASH. SWASH is a patented product.

More information about the product and the fitting procedure can be found in the SWASH Fitting & Customization Manual and in the SWASH Clinical Manual.