

SpineCor Treatment

Initially a dynamic bracing solution for Adolescent Idiopathic Scoliosis, **SpineCor** treatment has evolved over the past 20 years and now provides help for patients of all ages affected by Scoliosis and round back (Hyperkyphosis) deformity.

SpineCor treatment was developed from comprehensive scientific research and rigorous clinical testing and has been used to treat thousands of scoliosis sufferers around the world.



Today...

SpineCor treatment is delivered by one of two custom fitted braces; Dynamic Corrective Brace, and Comfort Plus Brace.

Each **SpineCor** brace uses corrective movements to position the patient optimally, whilst scoliosis specific exercises help to reinforce the corrective movement position when required.



SpineCor Treatment for Children

SpineCor Treatment is appropriate for children from the age of 5 with Idiopathic Scoliosis and certain syndrome-related as 15° for children with high progression risk.)



Benefits of SpineCor Treatment in Children

- Long term correction/stabilisation in 59% of cases.*
- Prevention of surgery possible in 77% of cases.*
- The SpineCor braces are fully flexible, allowing normal body movement and growth.
- Children are able to lead a more normal life.
- The **SpineCor** braces can be worn discretely and comfortably under clothing.
- Better treatment acceptance, helping to achieve better results.
- None of the muscle weakening (atrophy) associated with rigid braces.
 - * Patients fulfilling SRS treatment indications and compliant with **SpineCor** treatment protocols.

SpineCor Treatment Results

When compared to rigid treatment options (TLSO & Providence orthoses), **SpineCor** treatment produces better results in children with Adolescent Idiopathic Scoliosis with curves between 25° and 40° Cobb angle.

The statistics show a greater chance of preventing surgery and a much higher ability to produce stable correction of curves.

Scoliosis Curve	TLSO ¹	Providence ¹	SpineCor ²
Correction/Stabilisation	15%	31%	59%
Progression over 6°	85%	69%	41%
Progression over 45°	56%	45%	1%
Progression to Surgery	79%	60%	23%

Case Study

A 10 year old female with a 38° primary Left ThoracoLumbar curve and skeletal maturity of Risser 0.











Before Treatment

24 months in brace

5 years after brace weaning

5 years follow up showed a stable correction of the primary curve to 5°, which meant that this showed an additional curve correction after brace weaning. This is possible due to the neuro-muscular integration of the correction achieved in brace.

1 Janicki J A, Poe-Kochert C, Armstrong DG, Thompson GH. A compalison of the Thoracolumbosacral Orthosis and Providence Orthosis in the Treatment of Adolescent Idiopathic Scoliosis: Results using the New SRS Inclusion and Assessment Criteria for Bracing Studies. J Pediatr Orthop. 2007 Jun; 27(4):369-374

2 Collard C. Vachon V. Circo AB. Beausejour M. Rivard CH. Effectiveness of the **SpineCor** Brace Based on the New Standardized Criteria proposed by the Scoliosis Research Society for Adolescent Idiopathic Scoliosis. J Pediatr Orthop. 2007 Jun; 27(4):375-379.

SpineCor Treatment for Adults



Treatment Objectives in Adults

- **Pain Relief:** Improved spinal balance (alignment) provides pain relief by offloading the spine (joints and nerve roots, muscles).
- **Posture Correction:** With the gentle application of corrective movements, the **SpineCor®** Brace can improve the alignment of the postural segments of the trunk.
- **Progression Prevention:** Sustained improvement in postural and spinal alignment will help to prevent the usual deterioration of posture and progression of spinal degeneration disease.

SpineCor Treatment Results

SpineCor treatment has been successfully used on thousands of adults around the world, producing an average pain reduction of 70% in up to 90% of cases.

Case Study

47 year old female with a Degenerative De-Novo Adult Scoliosis. Her pain prior to treatment was rated as an average daily pain of 8/10.

In the SpineCor® Brace she had an immediate relief of her pain to 3/10. The initial x-ray shows a 40° degenerative lumbar scoliosis. In the SpineCor® Brace x-rays show an improvement of 7° to a 33° curve. Her pain relief of 0-3/10 and spinal correction have been maintained for over 2 years by using the SpineCor® Brace on a daily basis. Note the improved left lateral shift showing "spinal off loading".





Courtesy of Dr T Pappas, Chicago, IL

MARANT .



Dynamic Corrective Brace



The original dynamic brace in the SpineCor range, the Dynamic Corrective brace consists of a pelvic harness and a body-contoured bolero connected by four powerful elastic corrective bands.

- **Dual-layered Dacron stretch-resistant body-contoured bolero** controls trunkal position via the shoulders and lower rib cage.
- The stainless steel snaps of the corrective bands provide a tamper-resistant attachment solution for younger fingers.
- The multi-adjustable pelvic harness has seven adjustable closures to provide a fully customisable fit that can easily be changed in size as the patient does.
- The open harness design provides easy access for toileting (when combined with bodysuit).

Recommended for...

Originally designed for children, the Dynamic Corrective brace delivers maximal adjustability for a growing child.

The tamper-resistant stainless steel snaps provide control over non-compliance of younger children with the open harness design reducing the need to remove the brace for toileting.

Children: 🗸 🗸 🗸 Adults:

Adults may also benefit from the fully customisable fit of the pelvic harness and the ease of toileting, but older adults may find the stainless steel snaps difficult to use.

For more details, please visit our information page by scanning the following QR code:



SPINECOR® Comfort Plus Brace



The third generation SpineCor® brace draws on over twenty years clinical experience with the SpineCor® treatment principle of "Corrective Movement®".

The **1st** development objective was to produce an even more comfortable and wearable brace to meet the needs of both children & adult users. These developments would have obvious advantages for patient acceptance and compliance which alone have the potential to improve treatment outcomes but these were not to be the only advancements.

The **2nd** development objective was improving performance with greater "Corrective Movement®" control, offering the potential to better manage stiffer/larger curves.



■ New Shorts Design:

- The new design curved Velcro® belt is both adjustable in height & tension, providing a highly customisable fit for optimal stability.
- A large flapped gusset allows easy toileting.
- Utilising the same Meryl® fabric as the Bolero, the shorts offer exceptional comfort.
- The new design together with the greater stretch from the Meryl® fabric allows some expansion for growth.

■ New Corrective Bands:

- The high performance elastic used in our new corrective bands has been specially developed to meet the unique demands of scoliosis bracing.
- Available in standard 50mm width and now for the first time in 75mm width, these options can provide greater comfort with at the same time increased power when required.
- Our new 50mm wide bands can provide up to 25% and 75mm wide bands up to 50% greater power when required in comparison to original 50mm wide.
- Crocodile Clip band connectors are now manufactured using lower profile Velcro® type material making them more discrete under clothing. Additionally these clips offer increased sheer resistance for more secure attachment, especially important with the more powerful corrective bands.



Designed with both children and adults in mind the Comfort Plus brace has a moderate level of adjustability to suit all ages. The higher peel strength of the Velcro clips provides resistance to the tampering of younger patients and the large flapped gusset suits both young and old toileting needs.



The added comfort level of the Comfort Plus makes this particularly good for those more sensitive patients with compliance or comfort issues. The higher waist and longer leg of the comfort plus shorts provides a stable and comfortable alternative to the Pain Relief brace.

The III Generation Ultimate **SpineCor® Brace**

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The **1st** development objective was to produce an even more comfortable and wearable brace to meet the needs of both children & adult users. These developments would have obvious advantages for patient acceptance and compliance which alone have the potential to improve treatment outcomes but these were not to be the only advancements.

The **2nd** development objective was improving performance with greater "Corrective Movement[©]" control, offering the potential to better manage stiffer/larger curves.

New Bolero Design:

- The full bolero jacket design, with its unique controlledstretch system, offers far greater comfort than the original rigid design.
- The fully encapsulated shoulders offer superior stability without the need for additional under arm stabilising bands
- The overall more stable design allows more efficient transfer of "Corrective Movement[®]" forces to the shoulders and rib cage.
- The Meryl® high performance microfiber Lycra® fabric moisture wicking and breathability offers exceptional comfort.

The Ultimate SpineCor® Comfort Plus Brace:

- The available range of new Boleros, Shorts & Corrective bands allow braces to be constructed for children as small as 18" to adults as large as 53" in hip circumference.
- Special Bodysuits are no longer essential wear with the comfort plus brace, regular underwear can easily be used. Bodysuits are, however, still available for patients who prefer closely fitted, all in one, underwear.
- More efficient and enhanced "Corrective Movement[®]" is available due to the increased stability of the overall design and choice greater powered corrective bands.



Recommended for...

Children: </



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I have been nothing short of amazed at the changes in my back since starting to wear the SpineCor Pain Relief brace... The SpineCor brace has really helped to strengthen my muscles, improve my posture, and bring my pain level to zero most days. I would highly recommend this brace to anyone - at any age - who has scoliosis and wants to manage pain and improve back health.

The SpineCor Dynamic Corrective brace is an engineering marvel that, in addition to being effective, takes into account the effect on the well-being, selfesteem and quality of life in patients with scoliosis. 🥊

My SpineCor brace, without a doubt, changed my life. It has helped immensely. It has stopped the progression of my curves, it eases my back pain considerably.

My parents found out about the SpineCor brace. It was a soft brace and I could move, bend, sit, stand and do a lot of things I couldn't do in the Boston Brace. I have been wearing my brace for 5 years now and I love it. When I wear my brace people barely even know I have it on. My spine went from a 48 degrees curve to a 6 degree curve out of brace.



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