

ALIGNCLINIC

orthotics • prosthetics • scoliosis

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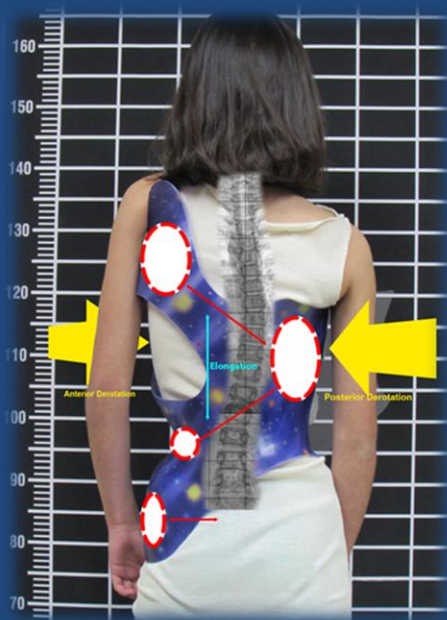
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Introducing the WOOD CHÊNEAU RIGO (WCR) BRACE for treatment of Idiopathic Scoliosis

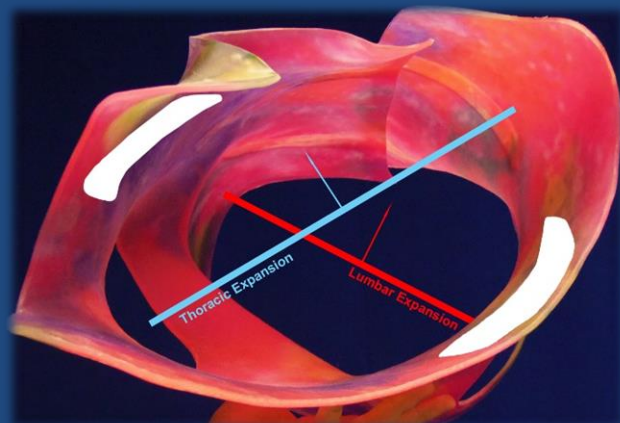


The WCR Brace is a thermoplastic scoliosis brace modeled on a hyper-corrected mold of the patient. This is a 3-dimensional correctional brace, which has significant pressure and expansion areas built into the brace and provides correction in all three anatomical planes. As is illustrated in the figure below, sagittal plane normalization and derotation are achieved by elongation of the spine as well as ventral and dorsal pressure systems.

The patient's curve type is individually classified from the Classification of Rigo using X-rays and clinical photos of each patient. Each WCR Brace is blueprinted by Grant Wood and is then both CAD (computer-aided design) and hand-modified by Grant Wood and Paul Burnette and fabricated in house at Align Clinic. Grant Wood uses one of his individual brace designs (from the Classification of Rigo brace designs) for each patient. Dr. Manuel Rigo is personally consulted on WCR Brace cases for verification of the patient's curve classification and scoliosis brace design as well. This is a multi-disciplinary approach using feedback from the patient's prescribing MD, Schroth physical therapist or Barcelona Scoliosis Physical Therapy School (BSPTS) therapist, and the orthotist. Subsequently, the measurements, X-rays, and clinical photos are used to design and fabricate a custom-made WCR Brace.

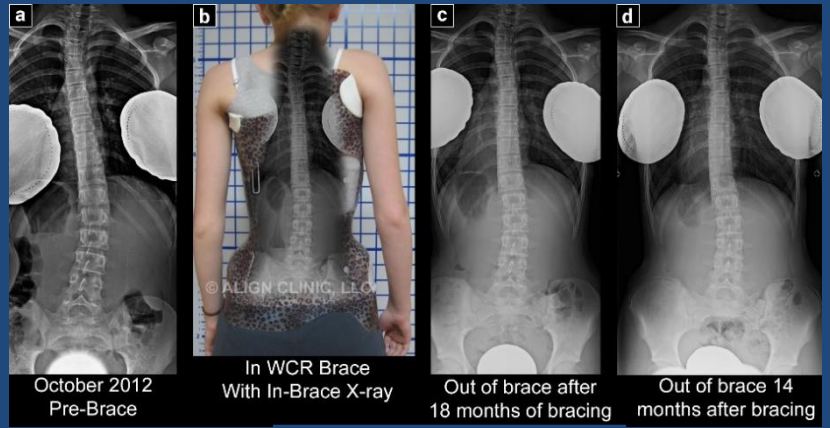


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Case Presentation #1



Case Presentation #2

WCR Brace vs. Boston Brace for Scoliosis Treatment

Wood Chêneau Rigo (WCR) Brace	Boston Brace
Asymmetrical brace that only applies pressure to the apex of the curves.	Symmetrical brace that applies pressure along the entire trunk.
Provides 3-dimensional correction of scoliosis, treating the Cobb angle of the spine, sagittal plane normalization, rotational deformity, and pelvic imbalance.	Provides 2-dimensional correction of scoliosis, treating mainly the Cobb angle of the spine.
Made of thin thermoplastic which is lightweight, ventilated, and more cosmetically pleasing. Ventilation due to expansion windows keeps the patient cooler while in the brace.	Made of a thicker plastic with an inner liner resulting in a bulkier, heavier brace with less ventilation. Less ventilation leads to the patient being hotter while in the brace, which may result in excess sweating.
Design allows for patient's body to move into larger expansion areas for improved fit and function.	Limited expansion areas to accommodate correction of posture.
Expansion areas allow the patient to breathe more easily while wearing the brace.	Pressure along the whole trunk makes it more difficult to breathe comfortably while wearing the brace.
Works together with Schroth physical therapy routines.	Does not work in conjunction with physical therapy.
Requires an orthotist with advanced training to evaluate, cast, and fit correctly.	Easy patient fitting and can be fabricated based solely on measurements, plaster casting, or scan.
More labor-intensive to fabricate and fit.	Requires much less time and labor to fabricate and fit.

FREQUENTLY ASKED QUESTIONS

- Is the WCR Brace a nighttime or daytime brace?

It is both. A full-time brace is usually worn 22 to 23 hours/day (off 1 hour for bathing, changing clothes, etc.). It could be used as a nighttime brace only if indicated by the physician, however it is most often used as a full-time brace. This determination is made based on the patient's risk of progression.

- How often does the brace need to be adjusted?

Some brace adjustments are not uncommon. They are normally worked out and the areas of previous discomfort or rubbing are tolerated by patients.

- Are follow-up appointments required?

Yes, follow-up X-rays and visits are needed to evaluate fit, function, and correction.

- Is physical therapy recommended with the brace?

The Schroth Method of physical therapy and BSPTS scoliosis rehabilitation are recommended with the Chêneau Rigo brace. The Schroth therapy must be provided by a Schroth-certified physical therapist (PT).

- Why does the WCR Brace function well with Schroth Therapy?

These braces have very large expansion chambers and windows built into the brace which allows a dynamic correction of the scoliotic deformities. Furthermore, the therapy teaches the patient how to optimize breathing and body movements to function with these expansion and pressure areas.

- How long will the WCR Brace last prior to needing a new brace?

These scoliosis braces normally last 12 months prior to needing a new one. This depends on how quickly the patient grows, primarily in height and secondarily in weight.

- Does the WCR Brace correct scoliosis?

There are studies completed that have demonstrated the Rigo brace and Chêneau brace both improve and stabilize the deformity, Hopt and Heine, Cauzac et al., Weiss, HR., Landauer, F., Rigo, M., Wood, G., Kotwick and Gallo, D., Wood, G., and Dallmayer, R.



Testimonials



Grant Wood, MS, CPO (UK), CO (US)

Grant Wood has over 30 years of experience in the areas of prosthetic and orthotic patient care, management, product development, and scientific research. He is an active presenter, researcher, and winner of awards in prosthetics and orthotics. Grant is a specialist in scoliosis bracing with the Chêneau brace and the Rigo-Chêneau braces. Grant's professional career as an orthotist and prosthetist spans work in the USA, England and Spain, where he worked for 8 years at Group IDEO in Sevilla and Malaga. Grant holds both a Bachelor of Science and Master of Science degree from the University of Salford, School of Prosthetics and Orthotics in England. His post-graduate thesis was on idiopathic scoliosis treatment using the Chêneau brace at the Research Institute for Health, University of Salford. As well as being British certified in prosthetics and orthotics, he completed his American Board Certification in Orthotics to become an ABC Certified Orthotist (CO) and US Board Certified in Prosthetics.

Paul Burnette, CPO

Paul Burnette is a co-founder of Align Clinic in San Mateo, along with Grant Wood and Steve Baum. He has over 37 years of experience in prosthetic and orthotic patient care and specializes in scoliosis bracing. Paul is also ABC certified in both orthotics and prosthetic. He was the first orthotist in the US to become WCR certified and works closely alongside Grant Wood. In 2016 Paul trained directly with Dr. Rigo in "The modified Chêneau-Brace according to Dr. Rigo Hands-on-Workshop" for brace design. He is also a Bay Area specialist in Plagiocephaly treatment for infants using cranial remolding orthoses (CRO). He been practicing in the San Francisco Bay Area, California since 1981 and has worked as a clinic manager for his previous employers in Fremont, CA., Palo Alto, CA and San Mateo, CA.

"The WCR Brace is a lightweight brace that fits very comfortably. My daughter has had two other braces, and she stated that this one is by far the most comfortable. She has worn the brace for one month so far without any complaints. Her posture is much better while she is wearing her brace and it is hardly noticeable under her clothing. My daughter is in middle school and wears her brace all day in school with no problems. We are very satisfied with the quality and comfort of the Wood Chêneau Rigo brace."

- *Annette N. Connecticut*

"Grant Wood is an exceptional professional in the field of scoliosis management. After my daughter was diagnosed with moderate/severe scoliosis at age 9, we learned about the WCR Brace and Grant's expertise with this method. We feel so fortunate to be working with Grant. In addition to his incredible training and knowledge about scoliosis management, Grant is a kind, patient, and thoughtful care provider who takes time to connect with my daughter and me at each visit. He is meticulous in his attention to measurement details and brace adjustments to ensure progress as well as comfort. Grant has given me confidence and optimism regarding my daughter's condition that no orthopedist was able to offer. My daughter's MD stated that Grant's brace did in 12 hours a day of part-time wearing what the Boston brace would take full time use to do, i.e. 23 hours a day. The curve went from pre-brace Cobb angle of 24 degrees to out of brace Cobb angle of 12 degrees. It is Grant that is making the biggest impact on the outcome of my daughter's scoliosis and we are grateful to be in his care."

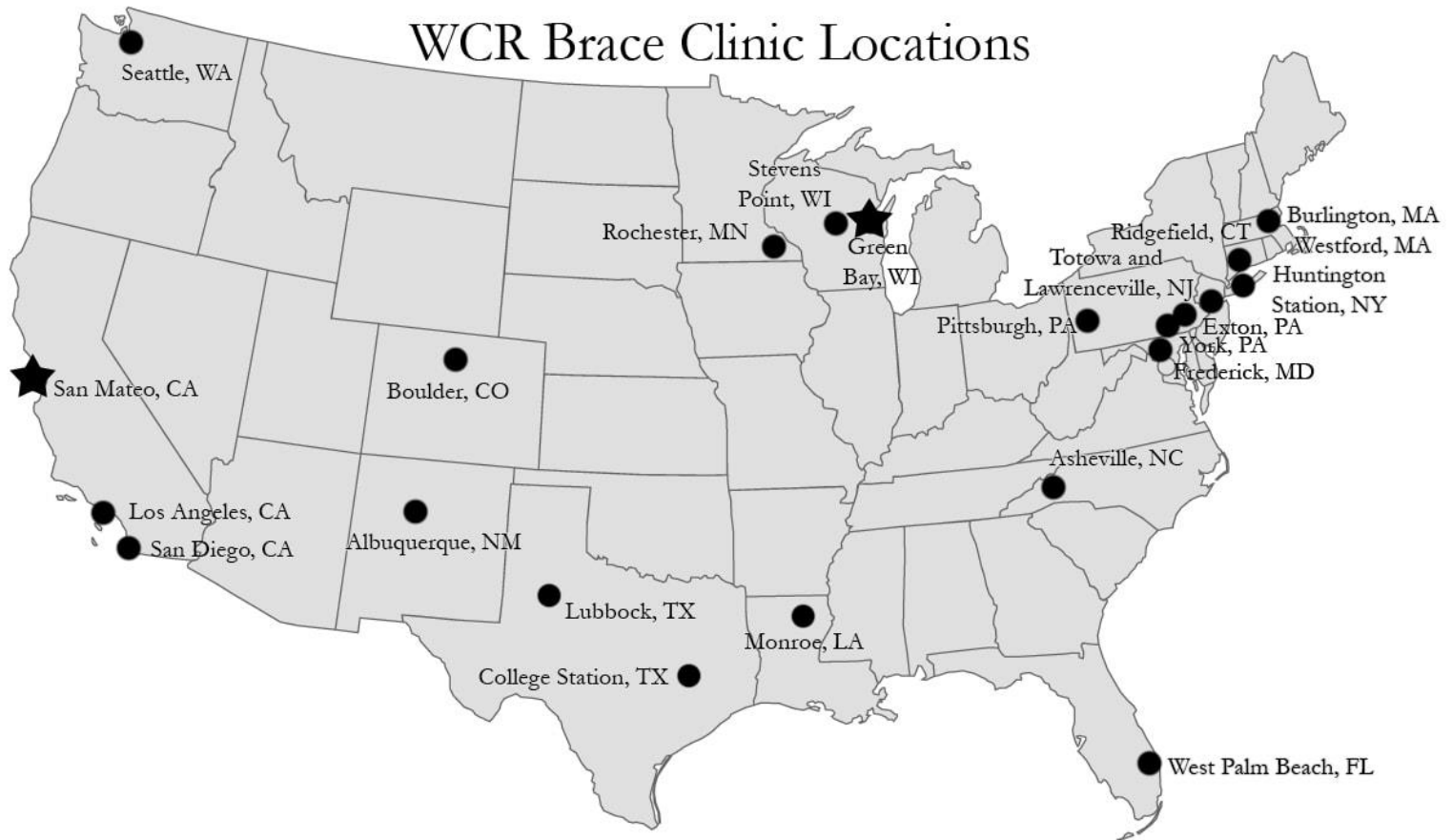
- *Shell P. California*

ALIGN CLINIC CONTINUES TO BE THE BEST IN MY BOOK FOR ORTHOTICS! A MILLION THANKS TO PAUL BURNETTE FOR CHANGING MY LIFE! My condition changed such that I recently needed a brace for the other leg. Paul designed me a perfect brace! As a matter of fact, he said I adjusted to it very quickly. I think that is because the fit is very natural, and it helps me sooooo much! It helps me to walk again and that is HUGE! Paul is so good at what he does. With my situation changing, it is a difficult time for me. Paul is so positive, reassuring and professional that it makes the experience so much easier. Thank you also for getting me a timely appointment and quick turnaround time! Paul knew how much I needed the new brace and he made it happen! Thank you also goes to Jolene and May for their work in the office with my insurance, etc. I COULD NOT BE HAPPIER FOR ALIGN CLINIC BEING THERE FOR ME WHEN I NEEDED THEM. They have me as a client forever!

- *CJ.J. California*



WCR Brace Clinic Locations



Hope's Embrace® Brace Shirts

Hope's Embrace® Signature Tank and Cami Style WITH and WITHOUT FLAP, plus Cap Sleeve brace shirts now available for purchase exclusively through Align Clinic, San Mateo. For more information about this product and to order, please visit www.hopescloset.com.



Product Features

- Dri-Fit Moisture Wicking
- 100% Polyester
- Double layer of fabric under armholes
- Longer-than-average length
- Flatlock stitching
- Reversible flap
- Soft and comfortable
- Lightweight yet durable
- Anti-bacterial
- Pilling Resistant
- Breathable



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