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The SPoRT concept of bracing for idiopathic scoliosis.

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Abstract

The SPoRT (acronym: Symmetrical, Patient-oriented, Rigid, Three-dimensional, active) concept of bracing is a new way to build braces based on our 20 years of experience and the biomechanical principles of scoliosis correction, inclusive of the Sibilla and Sforzesco braces. The concept always requires a custom brace, which is made according to the patient's individual requirements. New technologies such as CAD-CAM can be applied, and often for better results, without the customary use of prebuilt forms whose measurements are stored in databases. Once the initial draft brace is completed, a final test must be made on the patient to modify and adapt it, depending on his or her real interaction between the body and the brace. The results that are today available on the SPoRT concept relate to the Sforzesco brace and are necessarily short-term, because the first treated patients are now reaching the fourth-year follow-up examination and haven't yet completed their treatments. On the basis of the initial evaluations, we can state that the Sforzesco brace is more effective than the Lyon brace after 6 months of treatment and that the Sforzesco brace is equally effective as the Risser Plast brace.

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