

**ORAL PRESENTATION**

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# Early results of Rigo-Chêneau type brace treatment

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## Background

We have been using Rigo-Chêneau type brace for the treatment of idiopathic scoliosis since 2007 [1,2]. Curves other than the upper thoracic main curve were the subjects of the treatment. Most patients wore their brace as part-time, at home or at night.

## Purpose

To evaluate early results of Rigo-Chêneau type brace treatment.

## Materials and methods

A total of 54 patients, 49 females and 5 males, were included in the analysis. Average age at the beginning of the treatment was 12.5 years (10 to 15). Risser sign was 0 in 15, I in 9, II in 15, III in 5 and IV in 10 patients. Curve pattern was thoracic (T) in 25, thoracolumbar or lumbar (TL) in 10 and double (D) in 19 patients.

## Results

Average Cobb angle before treatment was 36.5°, which was reduced in the trial brace to 23.2°: correction rate was 36% (34% for T, 69% for TL, and 31% for D curve). Of 54 patients, 20 met the inclusion criteria of the SRS brace study (Risser 0-2, Cobb angle 25-40°) and six of them reached skeletal maturity during the treatment period. Three of them (50%) progressed more than 6°; however, only one patient progressed more than 10°.

## Conclusions

Although early experience suggested better results than the natural history, accumulation of data will be

necessary to determine the effectiveness of the treatment with Rigo-Chêneau type brace.

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## References

1. Rigo M, Weiss HR: **The Cheneau concept of bracing- Biomechanical aspects.** *Stud Health Technol and Inform* 2008, **135**:303-319.
2. Rigo M, Villagrasa M, Gallo D: **A specific scoliosis classification correlating with brace treatment: description and reliability.** *Scoliosis* 2010, **5**:1.

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