Reviewer’s report

Title: The new Lyon brace: ARTbrace. New concepts based on scoliosis detorsion. Prospective study of the first 225 early radiological results of in-brace correction

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Reviewer: Tomasz Kotwicki

Reviewer’s report:

This is an interesting and high quality report on a series of first 225 cases treated with a new Lyon ART brace. The authors explain the mechanism of action of the brace and the particularities of the fabrication. The history of the braces in Lyon is given. The innovative concepts of the ART brace are well defined. All patients receiving treatment with a new device are prospectively followed. The results are reported for the totality of patients as well as for a group of 64 patients fulfilling SRS criteria for brace studies. The results in terms of immediate in brace correction are very promising. The sagittal plane is also corrected in part. The practical issues are discussed. The figures add new information to the text.

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.