

PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 64624

Title: Anterior vertebral body tethering for idiopathic scoliosis in growing children: A systematic review

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05395420

Position: Editorial Board

Academic degree: MS, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Italy

Manuscript submission date: 2021-02-21

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-26 10:31

Reviewer performed review: 2021-06-28 01:58

Review time: 1 Day and 15 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

The study describes the effectiveness of management of idiopathic scoliosis with anterior vertebral body tethering for three-dimensional deformity correction without compromising the spinal and chest growth left in the children. They noted that the procedure has moderate success rate and needs further long term follow-up studies and high quality evidence to support its regular use in practice. This was the first systematic review on the subject to consider the procedure for idiopathic scoliosis. The conclusions were based on the results obtained. Authors recommend future studies to confirm the surgical criteria for AVBT, prove tethering long-term effectiveness and safety, focus on patient-reported outcomes measures (PROMs) and propose strategies to avoid perioperative complications and long-term implant failures. They also proposed for development of a more durable, fatigue-resistant cable to prevent the high number of broken tethers observed in the published studies. The study is limited by the quality of evidence. This article would be of high value to be added to the literature on the subject. There are a few suggestions to improve the quality of the manuscript. Line 19 remaining typo Line 50 remove hyphen Avoid breaking the lines abruptly in many places. Club them into short paragraphs rather than single line statements. Although authors have used a quality assessment tool by AAOS clinical practice guideline and review methodology version 2, it would be ideal to present the findings in a table to the readers either in the main text or as a supplementary material. The authors are also suggested to submit a sample search strategy in at least one of the databases to validate and promote the repeatability of the study. The authors also suggested to submit the list of full text articles screened & excluded with reasons for better validation to the



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study methodology.