Reviewer's report

Title: Adolescent idiopathic scoliosis (AIS) treated with arthrodesis and posterior titanium instrumentation: 8 to 12 years follow up without late infection.

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Reviewer: Hitesh N. Modi

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Minor Essential Revisions
1 Results: Authors need to provide the details of sagittal balance in short. Whether thoracic kyphosis and lumbar lordosis were maintained at final follow-up.

Material and Methods
2 Patients- 4 patients could not be classified according to these system- what are they, please explain.

3 Surgical technique: Nearly all operative procedures were performed by the senior author (H.G.) himself.- suggestion. Delete word ‘nearly’.

Posterior fusion with the titanium implant was performed in all cases. - Sentence needs correction. Titanium implants cannot perform fusion.

4 The blood loss was 1980 ml on average (range 600 to 4500ml), and the operation time was 270 min on average (range 140 to 410 min). Fusion with the implant included 10.0 (range 6 to 13) vertebrae on average. The average cephalic level of fusion was T 5.2 and the average caudal level of fusion was L 2.3. The two rods were fixed with a combination of hooks and pedicle screws only, with an average of 8.9 hooks and 4.2 screws per patient. A total of 424 hooks and 209 pedicle screws were inserted in 50 patients.- should be in results and discussion.

5 Baseline evaluation
using Cobb.s method- using the Cobb method.

Attention was also paid to radiological complications such as rod fracture, pedicle screw fracture or hook dislocation.- Keeping in mind that this is one of the longest follow-up with titanium implants- special attention should also be paid to pseudarthrosis and related back pain.

6 Results
Write statistical analysis part for frontal and sagittal balances of all patients preoperative, postoperative and at final follow-up time.

There was one patient dissatisfied with the treatment- kindly evaluate the details of this patient whether hook fixation or any other problem- what are the reasons.

7 Discussion
Full form of LOSP should be written

8 Discussion is entirely based on infection. However, I think functional and satisfaction results should also be discussed. A long follow-up study should not only be based on presence or absence of infection.

**Level of interest:** An article of importance in its field

**Quality of written English:** Needs some language corrections before being published

**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.