

Reviewer #1:

1. Abbreviations should be with its full name when it firstly appears in the paper.

The authors have searched the manuscript to ensure appropriate use of abbreviations.

2. An additional illustration to demonstrate how to perform the traditional Chinese medicine manipulative reduction is recommended.

The author has added a picture (picture 3), which is a snapshot of the operation process.

3. An editing of English language is recommended.

The author has sought professional language companies to polish the English language.

Reviewer #2:

1. In the introduction section, suggest avoiding using the word “so on” . Instead, you may state “ These surgeries include, but are not limited to solidified bone cement combined with short-segment pedicle screw fixation,...

The authors have made changes to this section in the manuscript and are marked in yellow.

2. In the introduction section, suggest avoiding using “kill” , instead use “to relieve pain” ...

The authors have made changes to this section in the manuscript and are marked in yellow.

3. In the History of past illness, can authors state the cause of old spinal fractures?

The detailed cause of the old fracture was not found by the authors in the clinic. The cause is unclear, but it is similar to the unexplained fractures found in some patients in clinical work. Modified parts are marked in yellow.

4. Under personal and family history, compute and include the patient's Body Mass Index (BMI).

BMI has been calculated by the authors, and the modified parts are marked in yellow.

5. Under Discussion, suggest to state as follow: “Surgical treatment with PVP” instead of “of PVP” .

The authors have made changes to this section in the manuscript and are marked in yellow.

6. Can authors discuss/elaborate more about traditional Chinese medicine manipulative reduction (TCMMR)/ Is this an acceptable word in google scholar or PubMed or this is the author's choice?

In the treatment section, the author has described the operation of TCMMR, and added a picture of the operation process (picture 3). In the discussion section, TCMMR has been described in more detail, and the advantages and disadvantages of this method are also described.

This is the author's choice. Because there are relatively few reports on TCMMR in English, the authors did not find a more appropriate abbreviation.

Looking at PubMed, is this similar to Osteopathic Manipulative medicine?, Nonoperative manipulative reduction?, Close reduction by Chinese traditional manipulation? I could not find TCMMR in google scholar. a. – Specifically, you described TCMMR in your Discussion “ The TCMMR uses the spinous process of the fractured vertebral body as a fulcrum to reduce the force of continuous elastic pressing to the ventral side.” b. Is this the general definition for TCMMR? Or just in your case? c. If available, correlate TCMMR outcomes from other studies, if not used for spinal problems. Short/brief report.

TCMMR is one of the methods of orthopaedic reduction. It belongs to the category of non-surgical treatment. The abbreviation of Traditional Chinese Medicine is TCM. In order to fully describe the special operation of TCM manual reduction, the author abbreviated it as TCMMR. However, the authors found no relevant standard abbreviations. The procedure described in the manuscript is that of the TCMMR for spinal fractures and is particularly applicable to this case. Since

the author is committed to the treatment of spinal diseases, the understanding of TCMMR is limited to the scope of spinal orthopaedics. Therefore, the author regrets that we cannot provide other reports.

7. If able, include in Discussion the most commonly used treatment in such cases and long-term outcomes. – Authors can then do a contrasting analysis with Nonoperative management. (If available)

The authors have described the disease in similar patients in the introduction section of the manuscript, mainly open surgery. However, the authors did not observe long-term outcomes of this. The reason is that the patient's condition is special and not suitable for open surgery and non-surgical treatment. The authors believe that discussion of new treatment methods used by patients should be the main focus, and it is not recommended to discuss open surgery or non-surgical treatment.

8. The failure rate of TCMMR if used in such a case? If unable to restore the height of the fractured vertebra, what to do next? (In authors' opinion), if no available data.

The authors found no relevant reports on failure rates. The author has used it many times in clinical work. The authors believe that failure mainly includes unsatisfactory reduction, and repeated operations may bring about new fracture injuries in order to achieve the ideal reduction effect. When an unsatisfactory reset occurs, this result is generally only acceptable. Of course, this situation was anticipated before surgery. Unfortunately, the authors have not performed a statistical analysis of the data.

(1) Science editor:

Is there any report on the combination of traditional Chinese medicine and surgery?

There are reports of such a joint operation. The author's team also reported earlier. This is described and cited in the manuscript.

The advantages and disadvantages of TCM treatment and possible adverse reactions should be listed in the discussion.

The authors analyze the advantages and disadvantages of TCMMMR combined with PVP in the Discussion section, which is an important part of the manuscript. Among them, the advantages and disadvantages of TCM are also included. The authors believe that the advantages and disadvantages of TCM should no longer be described in isolation.

(2) Company editor-in-chief:

The title of the manuscript is too long and must be shortened to meet the requirement of the journal (Title: The title should be no more than 18 words).

The title has been modified by the author and is marked in yellow.

Please provide the original figure documents.

The author has provided the original image for upload.

Please prepare and arrange the figures using PowerPoint to ensure that all graphs or arrows or text portions can be reprocessed by the editor.

The author has made a PPT and uploaded it. The pictures are original and marked.

Please check and confirm whether the figures are original (i.e. generated de novo by the author(s) for this paper).

The author has checked the pictures and they are all original.