

Reviewer 1 : good interesting idea and work, but needs a lot cases to confirm.

Thank you very much. We will add more cases to confirm in the near future.

Reviewer 2 : This case report is description of new technique. It is interesting way how to reduce dosis.

Thank you very much for your comment.

Reviewer 3 :

In this article, the authors presented a case report regarding transforaminal percutaneous endoscopic lumbar discectomy under the guidance of ultrasound. Well written paper. Some problems existed. 1. Title: The title of the article is quite strange even if the authors just wanted to use this title to attract eye balls. How can two shots of G-arm fluoroscopy finish two levels of tranforminal PELD? No surgeons involved? Strange title. A title like "Guidance with ultrasound for transforaminal percutaneous endoscopic lumbar discectomy may prevent radiation exposure: case report and literature review" is more suitable.

Thank you very much for your comment. We did want to attract audience's eye balls. Now we think your topic is much better and we have changed it.

2. In the abstract: In "Repeated fluoroscopy, with more than 30 radiations on average, is inevitable---", what does "30 radiations" mean? Does it mean 30 shots? 30 Procedures or radiology? Please redefine it or use other words.

Thank you very much for your comment. It was 30 shots and we have changed it.

3. In the INTRODUCTION section, the authors said that "radiation exposure from PELD may be of concern----". PELD means percutaneous endoscopic lumbar discectomy, and it does necessarily use radiation. The authors should point out that PELD with use of radiation equipment like X-ray or CT or other x-ray related equipment so as to be accurate.

Thank you very much for pointing out this error. We have changed it into "radiation exposure during X-ray guidance of PELD"

4. In the DISCUSSION, the authors used some citations of others' work. The citation is not in the correct form. When citing others work, please just cite the first author's family name followed by et al if there is more than one author. In the first line of the first passage in the DISCUSSION section, the authors used "Fu G et al. showed that ----". I checked the reference number 6, the first author is Fan G. So, when citing this reference the correct citation should be "Fan et al showed that ----". Another example is in the third passage in the DISCUSSION where the authors cited "Wu RH et al. reported an initial study----". Here the correct form of citation should be "Wu et al reported an initial study----". Please check the whole article and correct all similar problems.

Thank you very much for pointing out this error. The errors have been corrected in the revised manuscript.

Reviewer 4 :

This manuscript presented a case of 38-year-old male with two levels of LDH who received ultrasound (US)-assisted PELD and yielded good results to prove ultrasound could be used to guide

the puncture and cannulation of PELD, which can greatly reduce the radiation dose. Overall, this case report is meaningful for clinical use to some extent and this technique will benefit patients with two levels of LDH. There are still some questions need to be answered. 1. The title is too long for a paper.

Thank you very much for your comment. One of the reviewers recommends that we adopt this topic" ***Guidance with ultrasound for transforaminal percutaneous endoscopic lumbar discectomy may prevent radiation exposure: case report and literature review***".

Any suggestions?

2. Possible inclusive or exclusive criteria for this technique are meaningful for its widely application in the near future.

Thank you very much for your comment. We have added the inclusive or exclusive criteria in the discussion session.

3. The language should be improved deeply, there are some obvious mistakes on grammar.

Thank you very much for your comment. We will improve our language in the texts.

4. The treatment effect of this ultrasound guided techniques should be compared with conventional technique using only X-ray.

Thank you very much for your suggestion. In this article, only one case was reported and we could not compare the treatment effect of ultrasound and X-ray guidance. However, except for the puncture and cannulation process, the rest operations of PELD are not changed between US and X-ray guidance. Therefore, their therapeutic effect should not be significantly different theoretically. In future, we plan to write an article to compare their differences.

5. The structure should be made more clearly. Subtitle may be useful for a better structure (e.g. case report section).

Thank you very much for your suggestion. We have changed it into " ***Guidance with ultrasound for transforaminal percutaneous endoscopic lumbar discectomy may prevent radiation exposure: case report and literature review***".

6. The conclusion section is too short, please write more detailed.

Thank you very much for your comment. We have added the content of the conclusion.

7. It is better to add arrows in the figure 1.

Thank you very much for your comment. We have added arrows in figure 1c and figure 1d.