

Dear editor and reviewers,

Manuscript ID: 87395 and Title: Adult localized Langerhans cell histiocytosis: a case report and review of literature

Thank you for your letter and the reviewers' comments concerning our manuscript entitled "Adult localized Langerhans cell histiocytosis: a case report and review of literature" (87395). These comments were valuable and helpful. We have read the comments carefully and made corrections. We have uploaded the revised manuscript based on the instructions provided in your letter. Revisions in the text are shown using yellow highlights for additions.

We would like to thank you for allowing us to resubmit a revised copy of the manuscript, and we highly appreciate your time and consideration.

Sincerely,
Suye Hu and Linge Li

Reviewer 1:

"Adult localized Langerhans cell histiocytosis: a case report and review of literature"
Langerhans cell histiocytosis is a rare clonal proliferative disease in adults characterized by a broad clinical spectrum and variable course. The case presented here is that of a 32-year-old woman presenting plaques and ulcers on the vulva and crissum, accompanied by pain persisting for more than a year. The authors describe the results of the histopathological examination which was carried out on sections stained with hematoxylin and eosin and on which several characteristic biomarkers were highlighted with immunohistochemistry. The authors also provide information concerning the evolution of ulcerations during treatment with prednisone taken orally once a day. This clinical case provides information on the knowledge of a rare pathology and is entirely worthy of being published. However, I will make a few comments so that the manuscript can be improved.

Q1 Page 4. Write "Vaccination history is unknown" instead of "Vaccination history is unkown".

Response: Thanks to the reviewer for correcting the spelling error, We have made corresponding change in the revised version.

Q2 Page 5, "Laboratory examinations": Several details regarding the histological staining would be useful: what was the fixative used for the biopsies?

Response: The biopsy was fixed by 10% neutral formalin. The detail regarding the histological staining will add in the paper.

Q3 How were the parts included (in paraffin, I assume)?

Response: The biopsy tissue was embedded in paraffin. The detail regarding the histological staining will add in the paper.

Q4 Some details on the immunohistochemical method used would also be useful: what are the references of the antibodies used (supplier, reference)?

Response: All primary and secondary antibodies were purchased from ZSGB-BIO, Beijing, China. The operation steps were carried out in accordance with the product manual.

Q5 What was the immunohistochemical method used: direct or indirect method?

Response: The direct method was used in the immunohistochemistry.

Q6 Quickly describe the method with incubation times, visualization method used.

Response: The time of incubation with primary antibody was 50 minutes at 37°C. The time of incubation with secondary antibody was 20 minutes at 37°C.

DAB (3,3'-diaminobiphenyl) was used in the visualization and the results were judged by taking pictures with a light microscope.

Q7 What chromogen was used?

Response: DAB (3,3'-diaminobiphenyl) was used as chromogen.

Q8 Examining the stained sections, it seems to me that it is DAB. How were the negative controls carried out? This part needs to be developed.

Response: The negative control used the self-control method.

Q9 Page 5, "Imaging examinations": It would be useful to have a few words on the meaning of the result of this examination (in the discussion for example).

Response: Thanks to the reviewer and we added the relevant content in the discussion about “Changes in the sacroiliac joint require further follow-up”.

Q10 Page 11, figure 3: use arrows or letters on the picture to show different parts of the section. page 12, figure 4: same, use arrows or letters on the picture to show the different parts of the section. Figure 5 to 9: the legends could be more developed. Use arrows and/or letters to show important parts of the image.

Response: Thanks to the reviewer and we added the arrows on the pictures.