

Dear editorial,

We have carefully taken the reviewers' comments into account and provided responses to each of the points raised by the reviewers. Some necessary corrections have been made. Please refer to the present manuscript text.

Sincerely,

Jian Shen.

Reviewer's code: 03478635

SPECIFIC COMMENTS TO AUTHORS

This is an interesting study about the effect of umbilical cord mesenchymal stem cells to repair the ovarian injury. The Tables 2, 3 and 4 may be revised in the graph format. The description about p value is not clear in the table.

Answer: Thank you for your comments. For tables 2, 3 and 4, we prefer tables. We think the data in the tables are very clear, so we didn't change them to figures. We added the P value in the tables. Thank you.

Reviewer's code: 02208246

SPECIFIC COMMENTS TO AUTHORS

This is an interesting study about the ability of hUCMSCs in the repair ovarian injury after chemotherapy. The treatment widely used for premature ovarian failure is mainly hormone replacement therapy. However, hormone replacement therapy mainly improves clinical symptoms, and it is impossible to fundamentally treat or repair damaged ovarian tissue, and long-term application of hormone replacement therapy can easily lead to side effects such as cardiovascular and cerebrovascular diseases, so hormone replacement therapy has not yet achieved satisfactory therapeutic effects. MSC therapy has been considered as a treatment for repairing damaged tissues and reconstructing normal tissue function. hUCMSCs have many advantages, such as easy collection, low immunogenicity, no tumourigenicity and no ethical restrictions, thus bringing hope to improve ovarian function and restore

fertility in patients with premature ovarian insufficiency and premature ovarian failure. This study is well designed. The methods are very clear, and the results are very interesting. I have some minor comments: 1. The manuscript requires a minor language editing. 2. Tables require editing. 3. Is there any limit of this study? Please make a short discussion. 4. The references list is updated, but requires an editing.

Answer: Thank you for your comments. 1. We have re-checked the language of the manuscript; 2. Tables were edited; 3. The discussion was updated. 4. We edited the reference list according to the journal's guideline.

Reviewer's code: 00843998

SPECIFIC COMMENTS TO AUTHORS

Sorry for the delay of reviewing. This study is very interesting. The study is well designed, and the results are interesting. The manuscript should be proofed carefully. There are some minor language polishing, which require an editing. No other comments.

Answer: Thank you for your comments. We re-checked the language of the manuscript.