

Reviewer #1:

**Scientific Quality:** Grade C (Good)

**Language Quality:** Grade B (Minor language polishing)

**Conclusion:** Minor revision

**Specific Comments to Authors:**

The authors used a random sampling approach to select 289 patients undergoing MHD between January and December 2022. Using correlation analysis to examine the associations between social support, dysphoria, despondency, and the QOL in patients undergoing MHD, They found that social support plays a significant mediating role in the relationship between dysphoria, despondency, and QOL in patients undergoing MHD. Very interesting study. And the manuscript is well written. The experiment of the study is designed very well, aims are very clear. Methods are reasonable. Data in tables are very good, and well discussed. I would suggest it publish in WJP if the authors can address the following concerns. 1. Table 6 is not mentioned in the main text. 2. It is recommended to add a table to describe the demographic information of enrolled MHD patients, such as gender and age. 3. The last two lines on page 8 "The total social support scores obtained from the 289 patients undergoing MHD ranged from 13 to 60" Where did the data from 13 to 60 come from? I did not get the information from Table 1. 4. There are some data that need to be reconfirmed, such as: In Effects of social support on distress "... 52 (range, 42-65)" is inconsistent with the data in Table 3. In Effects of social support on QOL "... median score of 69 and..." is inconsistent with the data in Table 4; In Effects of social support on QOL "Conversely, the lowest score was found in the emotional function dimension" is inconsistent with the data in Table 4. Thank you very much for giving me this opportunity to review.

Reply: Thank you for your advice on articles!

1. The identification of Table 7 (the original missing identifiers from Table 6) has been added to the article.
2. The table with the demographic information of enrolled MHD patients has been added according to your suggestion
3. We have improved the data in the table.
4. We have corrected the relevant data.

Reviewer #2:

**Scientific Quality:** Grade C (Good)

**Language Quality:** Grade B (Minor language polishing)

**Conclusion:** Minor revision

**Specific Comments to Authors:**

MHD is an enduring and often lifelong therapy for patients with ESKD. This frequently

results in a range of psychological challenges for patients. Numerous studies have demonstrated a high prevalence of psychological disorders in patients undergoing MHD, with dysphoria and despondency being particularly prevalent. In this manuscript, Zhou X et al conducted an observational study on the mediating role of social support in relationships between dysphoria, despondency and quality of life in patients undergoing MHD. 1- Title reflected the main subject of the manuscript. 2- The abstract summarized and reflect the described in the manuscript. 3- The manuscript adequately described the background, presented status and significance of the study. 4- The manuscript described Materials and methods (e.g., Subjects, Research Tools, Data Collection, Statistical analysis, etc.) in adequate detail. 5- The research objectives are achieved by the experiments used in this study. 6- The manuscript interpreted the findings adequately and appropriately, highlighting the key points concisely, clearly and logically. 7- Manuscript included sufficient, good quality Tables. 8- The manuscript cited appropriately the latest, important and authoritative references in the introduction and discussion sections. 9- The manuscript is well, concisely and coherently organized and presented and the style, language and grammar are accurate and appropriated.

**Reply:** Thank you for your comments and recognition of the article.