Author’s response to reviews

Title: Assisted reproductive techniques with congenital hypogonadotropic hypogonadism patients: A systematic review and meta-analysis

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Author’s response to reviews:

Dear Prof. Michael O'Reilly and Prof. Andrew A Dwyer:

Thank you for your letter and for the reviewer’s comments concerning our manuscript entitled "Assisted reproductive techniques with congenital hypogonadotropic hypogonadism patients: A systematic review and meta-analysis" (BEND-D-18-00229R5). Those reminders are valuable and very helpful for revising and correcting our paper. We have studied carefully and have made correction which we hope meet with approval. The main corrections in the paper and responds are as follows:

Grammar and clarity:

1. Line 34: We have changed "made" to "conducted".

2. Lines 48-50: We have changed to "Regression indicates pregnancy rate decreases with increasing age".

3. Line 68: We have changed to "1/10,000-86,000".
4. Line 69: We have corrected the reference to Dzemaili et al Endocrine connections 2017.

5. Line 81-83: We have changed to "Alternate fertility inducing methods have been described for patients who do not respond to hormone replacement therapy (HRT) as HRT replaces lacking hormones rather than inducing ovulation or spermatogenesis".

6. Line 178: We have changed "was recruited" to "were included".

7. Line 183: We have changed "for male" to "in male patients".

8. Lines 188-191: This sentence was redundant with previous section, we have deleted it according to reviewer’s suggestion.

9. Line 191: We have changed "of HRT was" to “treatment regimens used”.

10. Line 200: We have changed "different gender" to "sex".

11. Line 202: We have deleted "the" according to reviewer’s suggestion.

12. Line 219: We have changed "is" to "appears to be".

13. Line 227-228: We have deleted "which showed 50/50 roughly" in this sentence.

14. Line 228:-230: We have changed to "The fertilization rate (72%), implantation rate (36%) and live birth rate (51%) were not significantly different from other cohorts".

15. Line 239: We have changed "patients, however" to "patients. However".

16. Line 241-242: We have changed to "or few sperm with conventional therapy (i.e. azoospermia, oligospermia)."

17. Line 250: We have changed "larger sample size studies" to "larger studies".

18. Line 254: We have changed "gender" to "sex".

19. Line 261: We have changed "like in normal population" to "like the general population".

20. Line 262: We have changed "reduced with the increase in age" to "with increasing age".
21. Line 263-265: We have changed sentence beginning "And due to the weak" to "Older women require higher doses of gonadotropins to achieve the desired outcome due to diminished ovarian function with aging”.

22. Line 266: We have deleted "more" in this sentence.

23. Line 278-280: We have changed the sentence from "of the materials influenced the analysis of the outcomes and caused the deficiency of representation" to "may have influenced our findings".

Once again, thank you very much for your comments and suggestions.

Best wishes,

Yinjie, Gao