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Prof Xue-Jiao Wang  
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RE: Manuscript No: 41249 Response to Reviewers' comments:

Dear Xue-Jiao Wang,

We would like to thank the reviewers for their helpful and positive review of our study. The manuscript has been edited and a point-by-point response to the reviewer comments is included.

**Reviewer #1:** Burns M, et al. performed a retrospective study to investigate the effect of conditioning regimen and total body irradiation on PBHCT. Two main findings from this study are TBI and conditioning intensity could change Neutrophil engraftment and GvHD after PBHCT and some immune cell subsets are associated with better survival. The manuscript is well-written and the findings are interesting. However, there are some issues that need to be addressed:

1. The full names of abbreviations should be given when they first appear. Some example, "PBHCT" in title, KPS, MA, etc.

ANSWER: Edited the manuscript to write out several abbreviations. The title was altered to "Impact of condition regimen on peripheral blood hematopoietic cell transplant" to keep it within the word count of 12. Additional abbreviations that were written out include KPS, MA, RIC, and PFS.

2. The text of "Conditioning Regimens" should be summarized in a Table format. There are different conditions and different patient numbers, so a Table will be easy for readers to understand.

ANSWER: Included a table to summarize the conditioning regimens.

3. On page 5, "4) patients <18 years,-----." The current study does not include any patient young than 18 years old.

**ANSWER:** This line was removed.

4. Figure 1D. In text, the author wrote: "however there was no difference in grade II-IV acute GvHD by CD34+ cell dose (Figure 1C, 1D)." But the legend of Figure 1 stated "D: Lower CD34+ cell dose has a higher incidence of acute GVHD 3-4." Yet, the p value was marked as "NS" on the Figure 1D. So, it is contradict. The curves appear separated well. The author shall check the data again and revise accordingly. The actual p value shall be provided too.

**ANSWER:** An error was made in listing Figure 1D as "NS", after reviewing the data it has been correctly labelled as "P=0.02". This eliminates the previous contradiction between the figure and the text.

**Reviewer #2:** Good and informative study, for further processing.

**ANSWER:** None, no further suggestions were made.