

Dear editor:

First of all, thank you very much for your time and patience, and thank you very much for the reviewer's comments and suggestions on our manuscript. We have revised this manuscript according to reviewer's suggestions. Answers to questions were as follows:

### **Replies to reviewer 1:**

Reasonable treatment is helpful to improve prognosis of patients, and accurate prognostic evaluation is also important to guide therapy, and the two complement each other. However, the survival of some patients with brain metastasis is different in clinical practice. Thus, establishing a scoring system to accurately distinguish the survival differences and then choose individualized treatment is crucial. At present, only very little literatures focused on the analysis of synchronous brain metastasis. There has been no prognostic scoring system specifically for synchronous brain metastasis from CRC. In this point of view, this study will be important and interesting to the clinician. The study design is good with a clear aim. The sample of 371 patients is big and enough for this study. Methods were described in detail. The results of this interesting scoring system is reasonable. A minor language editing is required, before final publication.

Answer: Thank you for your comments and suggestions. According to your advice, we revised the language errors. The revised contents are shown in blue font.

Thank you again for your time and patience.

### **Replies to reviewer 2:**

1. Please provide Kaplan meier for BM and also non-BM CRC patients and when possible patients with metachronous BM.

Answer: Thank you for your suggestions. According to your advice, we performed the Kaplan-Meier survival curves for patients with BM and non-BM. The revised contents are shown in the "results" section (the second paragraph, red font), and Figure 1. For metachronous BM, because of the SEER database only provide information about the synchronous BM, we cannot comment on the survival of metachronous BM, and we look forward to your approval.

2. English language should be corrected.

Answer: According to your advice, we revised the language errors. The revised contents are shown in blue font.

3. Add synchronous to BM in a few sentences.

Answer: According to your advice, we described the synchronous BM. The revised contents are shown in the "materials and methods" section (the first paragraph, red font).

Thank you again for your time and patience.

Yours sincerely,

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