**Author’s response to reviews**

**Title:** Testing a pain self-management intervention by exploring reduction of analgesics’ side effects in cancer outpatients and the involvement of family caregivers: a study protocol (PEINCA-FAM)

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**Author’s response to reviews:**

Dear Dr. McMillan,

Thank you for the opportunity to submit a further revised version of our manuscript entitled “Testing a pain self-management intervention by exploring reduction of analgesics’ side effects in cancer outpatients and the involvement of family caregivers: a study protocol (PEINCA-FAM)”.

We appreciate your thoughtful feedback and have revised the manuscript to address your concerns as follows.

We have added the information about obtained permission from the participating University Hospitals to access patient data for the medical record review on page 23.

The second point refers to the questionnaires and interview guide, which have been developed for the study. The components of the intervention are described and published elsewhere (West et al., 2003). This reference is indicated in our manuscript (p. 12). Interview guides pertain to the main study and are therefore not uploaded.

Since our manuscript does not contain any data, we state 'not applicable' in the "Availability of Data and Materials" declaration.

As our manuscript is a study protocol, the heading “Results” is not applicable in our abstract.