Reviewer’s report

Title: Vemurafenib plus cobimetinib in unresectable stage IIIc or stage IV melanoma: response monitoring and resistance prediction with positron emission tomography and tumor characteristics (REPOSIT): study protocol of a phase II, open-label, multicenter study

Version: 1 Date: 01 Jun 2017

Reviewer: Hussein A Tawbi

Reviewer's report:

In this manuscript, Dr. van der Hiel and colleagues present a well designed prospective study that includes a detailed assessment of the impact of FDG and FLT-PET on the early prediction of response in patients with BRAF-mutated melanoma treated with cobimetinib and vemurafenib.

The study is exceptionally well designed and has extensive PKs and tissue biopsies and is likely to generate very relevant data.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Unable to assess

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable
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