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: 03 Jul 2017

Reviewer: Robert R. McWilliams

Reviewer's report:

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This is an exploratory study to assess the response and resistance prediction utility of FDG PET and FLT PET in melanoma treated with vemurafenib and cobimetinib. The assessments are largely descriptive and the endpoints are a bit vague. The background information is quite general. There is no one endpoint, and the primary aim is not to assess whether PET response at 2 weeks can predict CT response at 7 weeks and PFS. PET SUV will be assessed on a continuous scale and then categorized using PERCIST, etc.

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?
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Acceptable

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None

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