Reviewer’s report

Title: Case report: Recurrent pituitary adenoma has increased load of somatic variants

Version: 0 Date: 10 Aug 2019

Reviewer: Malak Abedalthagafi

Reviewer's report:

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1. Please list the mutations and their allelic frequencies - are these possibly germline events? Were these mutations previously reported in COSMIC? Is there any functional data to suggest that they are gain-of-function mutations? Prediction algorithms are insufficient criteria for classifying a variant as a driver mutation and multiple lines of evidence should be presented if the authors are claiming pathogenicity.

2. Did the authors found significant recurrent copy number changes or aneuploidy?

3. Prompted by the HRAS mutation identified. I think the authors should examine immunohistochemical activation of its canonical intracellular signaling cascade, the mitogen-activated protein kinase (MAPK) pathway.

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.

No

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.

Not relevant to this manuscript
Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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