**Reviewer’s report**

**Title:** Predicting patient use of general practice services in Australia: Models developed using national cross-sectional survey data.

**Version:** 0  **Date:** 28 Aug 2018

**Reviewer:** Jennifer Reath

**Reviewer's report:**

Minor amendments:

Health Care Homes comments on p3 currently in the future tense need to be re-phrased as this trial has now commenced.

Formatting of Table S1 in the row describing Model 4A needs correction

P 14 Barriers to access for Indigenous patients needs to be explained for an international audience and mention should be made of likely under-reporting of Indigenous status

More substantial edits required:

Explanation of "Active patients" on page 7 (later referenced at many points) requires further detail/ clarification. The weighting of the encounters described does not appear to influence the number of patients under consideration (and thereby designated "active patients").

p15 The model proposed is stated to predict number of General practice visits in Health Care Home model however it doesn't take into account the possibility that there will be higher numbers of visits to Allied Health Care Providers compared to current GP visits i.e. numbers of visits to general practices in total may be higher.

Additionally there are two key limitations to the predictive value of this model that require further consideration:

1. The model predicts revealed demand rather than potential demand i.e. if there is greater availability of GP consultations (or allied health consultations) the demand may be higher than that described by the proposed model

2. The model has not accounted for those who did not attend a GP within the previous 12 months i.e. the denominator population is likely to be an underestimate of the total population requiring general practice health care
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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Yes

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