Reviewer’s report

Title: Validation of Omron HBP-1300 Professional Blood Pressure Monitor based on Auscultation in Children and Adults

Version: 0 Date: 07 Oct 2015

Reviewer: Una Martin

Reviewer's report:

This paper describes a validation study using the AAMI protocol of the OMRON HBP-1300 monitor. The methods are well describes but there is some confusion around cut off points: page 7 why was the validation stopped if observers could not agree on diastolic but not systolic readings? Why were patients excluded if the difference between observers was >10 mmHg systolic and >8 mmHg diastolic rather than the 10 and 5 mmHg described in the protocol. It would be useful to know what cuff sizes the children had and what size the adults. My main concern is that it did not include >10% of readings >160 mmHg demanded by the protocol but instead included 8.2%. This means that there is a concern that the device may not be accurate for higher systolic readings.

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.

I am able to assess the statistics

**Quality of written English**

Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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