Reviewer's report

Title: The diagnostic accuracy of the MyDiagnostick to detect atrial fibrillation in primary care

Version: 1 Date: 20 April 2014

Reviewer: Konstantinos Karatolios

Reviewer's report:

Thank you for submitting this paper. I have read with interest this manuscript investigating the diagnostic accuracy of the MyDiagnostick to detect atrial fibrillation in primary care. However please take note of the following comments:

Major compulsory revisions:
1. Please add a figure of ECGs (for example one with sinus rhythm and one with afib) provided by the MyDiagnostick in order to visualize the quality of the ECG tracings.
2. In the results, the authors state that in the event of a uniform result (n = 166, 92%) the diagnosis was correct in 96% of cases with seven misdiagnoses, four false positives and three false negatives. However, the paper does not clarify the cause of the misdiagnoses, false positive and false negative findings. Therefore a short paragraph preferably with ECG figures should be added as explanation.

Discretionary Revisions:
Please state how many ECGs can be stored by the device.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
I declare that I have no competing interests.