

Validation of the Microlife BP A200 Comfort and W2 Slim automated blood pressure monitors in a general adult population according to the European Society of Hypertension and the ANSI/AAMI/ISO 81060-2:2013 protocols

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Objective This study aimed to determine the accuracy of the Microlife BP A200 Comfort and W2 Slim automated blood pressure monitors according to the European Society of Hypertension International Protocol revision 2010 and the ANSI/AAMI/ISO 81060-2:2013 protocols.

Methods The devices were assessed on 33 participants according to the European Society of Hypertension requirements and were then tested on 85 participants according to the ANSI/AAMI/ISO 81060-2:2013 criteria. Procedures and data analysis were carried out following protocol guidelines precisely.

Results The Microlife BP A200 Comfort and W2 Slim devices passed the criteria of the European Society of Hypertension International Protocol revision 2010 for both systolic blood pressure and diastolic blood pressure. The devices also fulfilled the ANSI/AAMI/ISO 81060-2:2013 criteria, with mean differences of SBP and DPB between the devices and observers of 0.38 ± 5.12 and 0.28 ± 4.29 mmHg for the BP A200 Comfort and 1.01 ± 6.80 and 0.34 ± 5.62 mmHg for the W2 Slim, respectively.

Conclusion The Microlife BP A200 Comfort and W2 Slim automated blood pressure monitors fulfilled the European Society of Hypertension revision 2010 and the ANSI/AAMI/ISO 81060-2:2013 protocols, and can be recommended for self-measurement in the general population. *Blood Press Monit* 00:000–000 Copyright © 2015 Wolters Kluwer Health, Inc. All rights reserved.

Blood Pressure Monitoring 2015, 00:000–000

Keywords: blood pressure, oscillometry, self-measurement, validation

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Received 30 August 2015 Revised 5 October 2015

Accepted 14 November 2015