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Validation and Compliance of a Home Monitoring Device in Pregnancy: Microlife WatchBP Home

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Objective. To assess the accuracy and patient compliance in using a novel home blood pressure monitoring device in high-risk pregnancy. *Methods*. Device accuracy was assessed according to the British Hypertension Society protocol in 45 pregnant women, including 15 with preeclampsia. Twenty-one high-risk pregnant women used the device in addition to their antenatal care. *Results*. The device achieved a mean difference \pm SD of $0.4\pm7.3/-0.4\pm5.5$ mmHg (pregnancy) and $-2.6\pm7.0/0.8\pm4.4$ mmHg (preeclampsia) for systolic/diastolic pressure. Eighty-one percent of women did at least 6 measurements/day and all women did at least 2 measurements/week. *Conclusion*. The Microlife WatchBP Home is accurate for use in pregnancy and increases surveillance in compliant patients.

Keywords Blood pressure, Home monitoring, Preeclampsia, Pregnancy, Validation.