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# VALIDATION OF THE OPTICAL AKTIIA BRACELET IN DIFFERENT BODY POSITIONS

## STUDY PURPOSE

The main objective of the study was to demonstrate the accuracy and precision of BP values estimated by the Aktiia Bracelet when compared to BP readings obtained by manual double auscultation in the most common body positions of daily life.

## STUDY POPULATION

**n= 91**

*study participants*

**43/43**

*male/female*

**21-65 (38)**

*Age: Range (Mean)*

## RESULTS

**Systolic BP**

*(Mean ± Std)*

**Diastolic BP**

*(Mean ± Std)*

**0.46 ± 7.75 mmHg**

*Sitting position (wrist at heart level)*

**0.39 ± 6.86 mmHg**

*Sitting position (wrist at heart level)*

**- 3.02 ± 6.10 mmHg**

*Sitting position (wrist on lap)*

**- 4.22 ± 6.56 mmHg**

*Sitting position (wrist on lap)*

**- 2.44 ± 10.15 mmHg**

*Lying position*

**- 1.93 ± 7.65 mmHg**

*Lying position*

**- 0.62 ± 12.51 mmHg**

*Standing position*

**- 4.85 ± 9.11 mmHg**

*Standing position*

**- 1.11 ± 9.85 mmHg**

*All positions*

**- 1.32 ± 7.56 mmHg**

*All positions*

## CONCLUSION

Aktiia can accurately estimate BP in the most common body positions compared to auscultation.