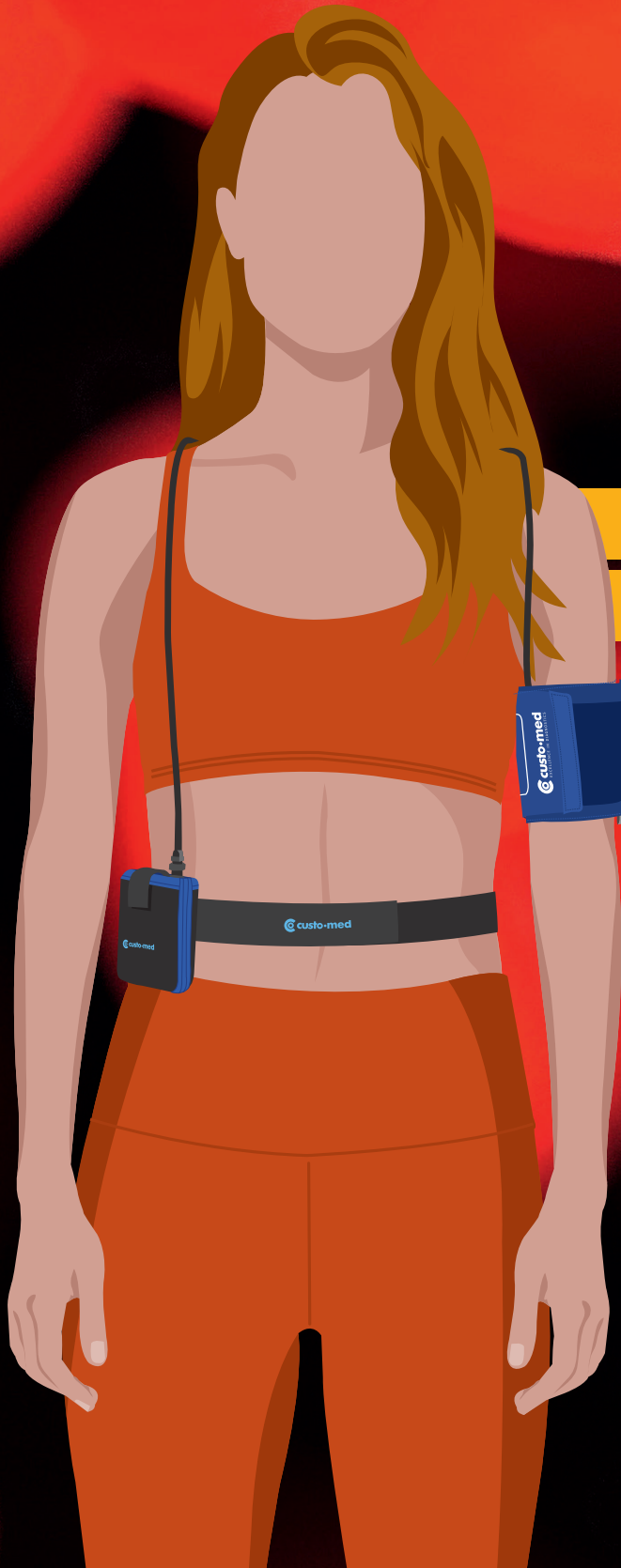


# Hypertension?!

It is the central values that matter.



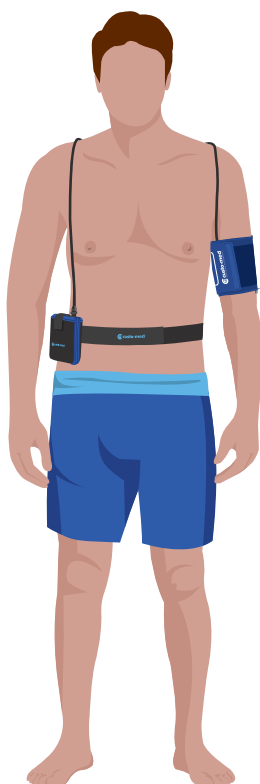
More accuracy with custo screen 310 –

our validated Type II device



## ***custo screen 310 – ABPM (type II) including pulse wave analysis and central blood pressure!***

Up to one third of all hypertension patients remain undetected or receive limited therapy with conventional blood pressure measurement on the upper arm. In ABPM, only the central blood pressure provides a comprehensive picture of the actual blood pressure situation, as it directly affects the organs. The custo screen 310 determines the central blood pressure with the help of the validated Antares algorithm.



### ***Your benefits:***

#### ***1. High measurement accuracy***

*Our solution provides a very high coherence with invasively measured values.*

#### ***2. Validated procedure***

*Accuracy has been proved in a multicentre validation study (according to ARTERY protocol).\**

#### ***3. All-in-one device***

*The central and brachial blood pressure values, including a pulse wave analysis as single measurement and as 24 hour measurement (ABPM) are available in one device.*

#### ***4. No additional examinations***

*The pulse wave analysis is made automatically during the standard blood pressure measurement.*

\* Dörr, M.; Richter, S.; Eckert, S.; Ohlow, M.-A.; Hammer, F.; Hummel, A.; Dornberger, V.; Genzel, E.; Baulmann, J. (2019): Invasive Validation of Antares, a New Algorithm to Calculate Central Blood Pressure from Oscillometric Upper Arm Pulse Waves. Journal of Clinical Medicine. 8 (7): 1-15

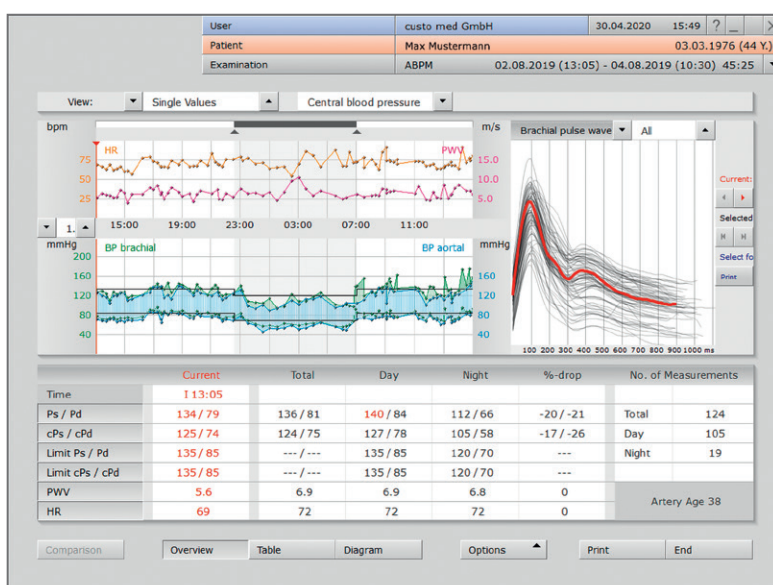
## Type I or type II device?

The main advantage of a type II device – like custo screen 310 – is that the measurement of brachial and central blood pressure is possible in only one measurement. And this on the basis of pulse wave data and without being dependent on device characteristics or additional patient data.

	Type I device	Type II device (custo med)
<b>Input parameter</b>	Systolic values (brachial) MAP age   height   sex Oscillometric signal	Oscillometric signal
<b>Number of measurements</b>	1 – 2	1
<b>Calibration</b>	necessary	not necessary
<b>Result</b>	Depends on calibration	Corresponds to the invasively measured blood pressure*
<b>Independent of patient data</b>	No	Yes

## Central blood pressure in the custo diagnostic software

- **Clear display** of central and brachial blood pressure at a glance.
- Display of **brachial pulse wave pressure curves** for each measurement.
- Calculation of the **pulse wave velocity**.
- **Tabular list of the brachial and central blood pressure and blood pressure values** and their statistical evaluation.
- Display of the **heart rate trend** and the calculated **artery age**.



## Spot measurement

Beside the measurement of ABPM, the software module allows a spot measurement (single measurement) to assess the cardiovascular risk. Pulse wave velocity is the crucial indicator here.

**The spot measurement includes the following values:**

- Brachial and central blood pressure
- Pulse wave velocity
- Heart rate
- Artery age





## More ABPM required?!

### *custo screen 300 – the classic*

custo screen 300 is the fast and safe way to a valid result! Our validated ABPM recorder fulfils all the criteria for sophisticated diagnostics when no measurement of the central blood pressure is required.

### *custo screen pediatric – safe diagnostics for pediatric cardiology*

custo screen pediatric is the first ABPM recorder worldwide for measurement in children, validated according to the stringent requirements of the European Society of Hypertension (ESH-IP 2010).

### *custo holter ABPM – simultaneous recording of Holter and ABPM*

The combination of custo screen 300/310 and custo guard holter is the perfect solution for recording Holter and ABPM at the same time. The system provides high wearing comfort without disturbing and artefact prone Holter cables.



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