# What's your blend?



Hemodynamic phenotypes – a new way of precision medicine in hypertensive patients.



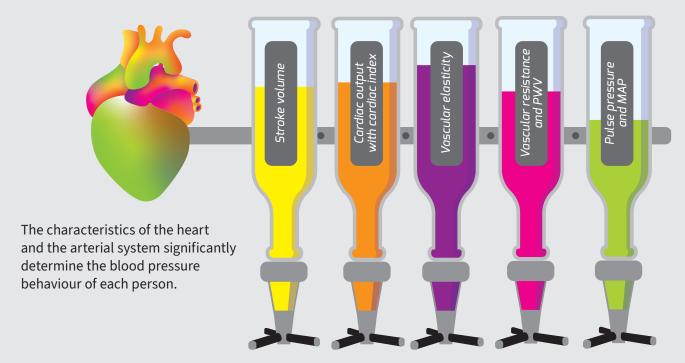
# NEW: hemodynamic phenotypes

### Tracking down the cause of hypertension!

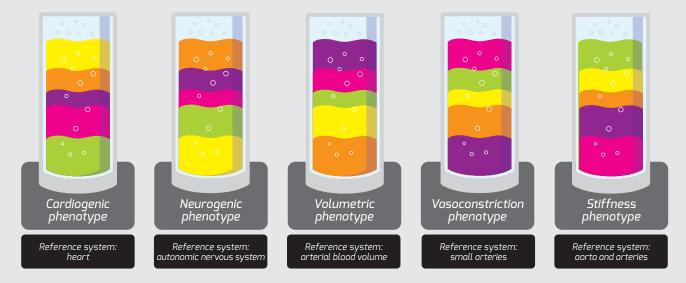
Arterial hypertension varies from patient to patient. Our new, clinically validated phenotype analysis provides, for the first time, cardiovascular parameters derived from a 24-hour ABPM. These form the basis of the identification of five hemodynamic phenotypes which provide indications of the cause of hypertension. If this is known, patients can be treated specifically.

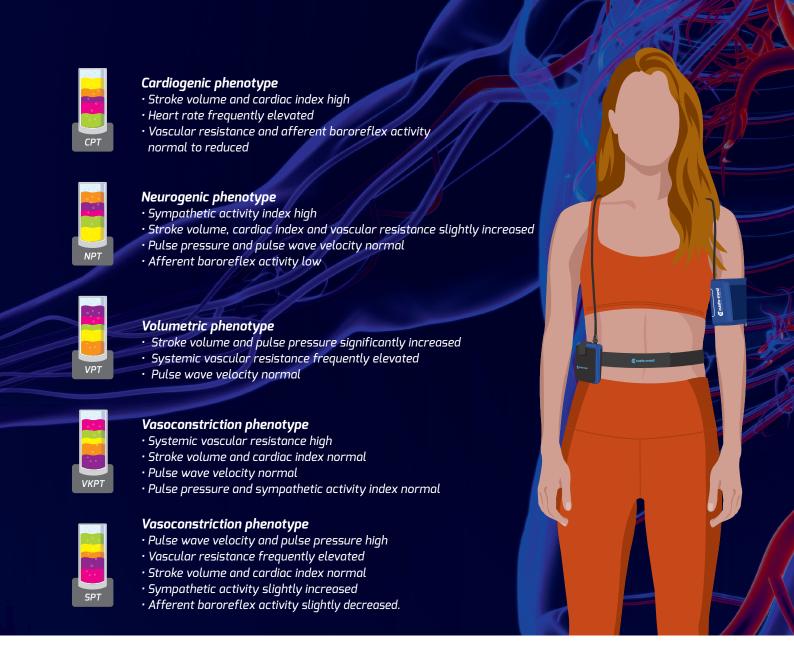
### Hypertension hemodynamics with ABPM

Each phenotype is blended from five "ingredients" (cardiovascular parameters):



The "blends" of cardiovascular parameters result in **five hemodynamic phenotypes:** 





## Hemodynamic phenotypes in custo diagnostic

The 24-hour ABPM is still the gold standard for guideline-compliant detection of hypertension. Targeted treatment is possible with the help of phenotype analysis, as this provides the physiological causes of hypertension. In custo diagnostic, the cardiovascular parameters are visualised, and the results of the ABPM and the phenotype analysis are described in detail.



### Phenotype analysis – a validated procedure:

With the help of the 24-hour ABPM and **the software module Phenotypes**, it is possible to reliably determine stroke volume, cardiac output, arterial compliance and systemic vascular resistance\*.

The applicability of the hemodynamic phenotypes in everyday clinical practice was validated in a cross-sectional study with approximately 7,500 patients.\*\*

- Álvarez-Montoya, D., Madrid-Muñoza, C., Escobar-Robledoa, E., Gallo-Villegas, J. and D. Aristizábal-Ocampoa (2021): A novel method for the noninvasive estimation of cardiac output with brachial oscillometric blood pressure measurements through an assessment of arterial compliance. Blood Pressure Monitoring 26(6): 426-434
- \*\* Aristizábal-Ocampo, D., Álvarez-Montoya, D., Madrid-Muñoz, C., Fallon-Giraldo, S., Gallo-Villegas, J. (2023): Hemodynamic profiles of arterial hypertension with ambulatory blood pressure monitoring. Hypertension Research 46(6):1482-1492

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