

MOBIL GRAPH[®]

24h PWA Monitor

Evaluation of Central Hemodynamics over a 24h period - Simplified Clinical Routine



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Pulse Wave Monitoring for Central Hemodynamic Assessment and Risk Stratification of Arterial Hypertension

- Peripheral blood pressure
- Central aortic blood pressure
- Cardiac output
- Peripheral resistance
- Augmentation index (AIx)
- Augmentation pressure
- Reflection coefficient
- Pulse wave velocity (PWV)



Indications revealed through PWA

- Congestive heart failure NYHA 2-4
- Dilatative cardiomyopathy
- Therapy-resistant hypertension



Clinical Hemodynamic Assessment and Risk Stratification of Arterial Hypertension – Simplified Clinical Routine

Mobil-O-Graph® – the Pulse Wave Analysis Monitor provides information about vital hemodynamic parameters connected with the stresses of everyday life.

For patients, the procedure is identical to a conventional ABPM. The PWA measurements are based on standard ABPM measurement intervals, and can be individually adapted to the patient's daily routine.

The PWA algorithms have been validated against invasive¹ and non-invasive² reference methods.

Arterial Stiffness: a sensitive predictor

Mobil-O-Graph® – the PWA Monitor enables validated assessment of arterial stiffness over 24 hours, thus avoiding mistaken diagnoses based on single examinations.

Hemodynamics – An Aid to Clinical Decisions

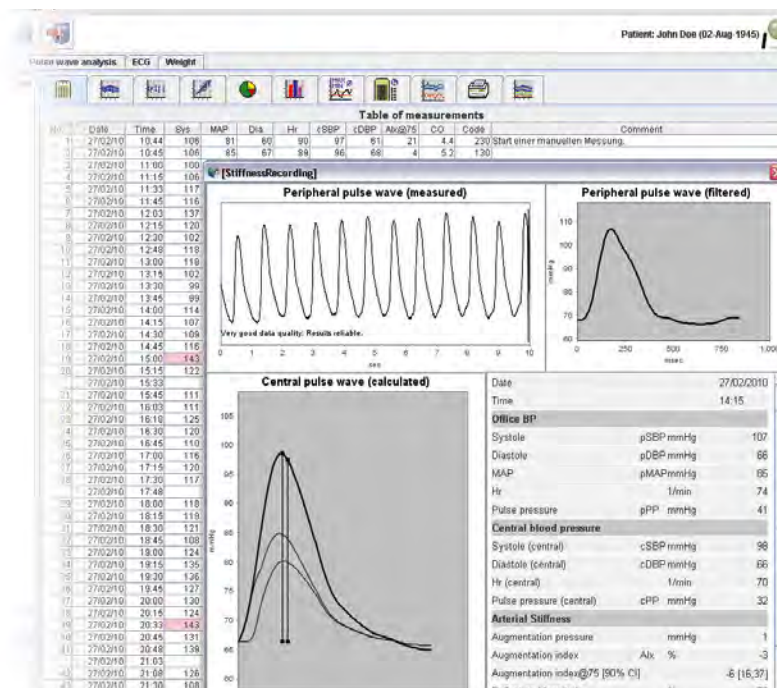
24 hour hemodynamic monitoring enables, for the first time, a better insight into a patient's pathophysiology and provides clinical support for diagnosis and treatment.

HMS CS Analysis Tool

HMS CS is a desktop analysis tool for use in hospitals, physicians' offices and clinical research. Pulse Wave Analysis is displayed in tables and easy-to-follow graphical reports, providing a comprehensive statistical assessment.

*Literature:

- 1 Simulation Modelling Practice and Theory 2008; 16:988-997
- 2 Journal of Human Hypertension 2010; 27



Tabular and graphical PWA analysis over 24h



24h PWA profile

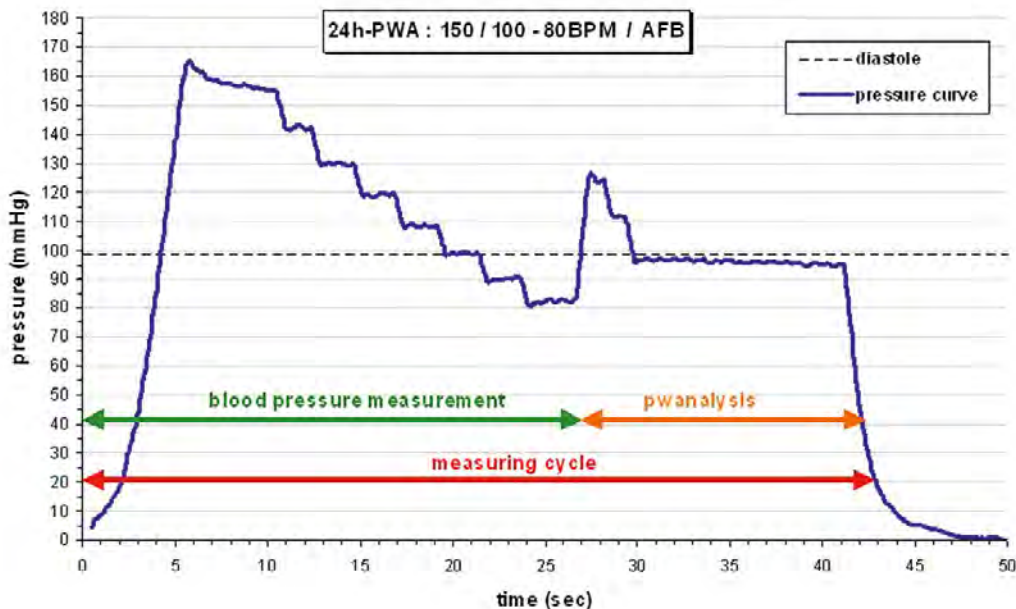


Technical Specifications

Mobil-O-Graph® - The 24h PWA Monitor

Measurement range	Systolic (SYS): 60 - 290 mmHg Diastolic (DIA): 30 - 195 mmHg
Accuracy	- 3 mmHg
Pressure range	0 to 300 mmHg
Pulse range	30 to 240 bpm
Measurement method	Oscillometric
Measurement protocols	<ul style="list-style-type: none">• 4 freely editable day/night intervals• Measurements per hour: 1, 2, 4, 5, 6, 10, 15, 20 or 30• Optional: automatic transfer of Blood Pressure values via GSM
Memory	300 measurements
Battery capacity	> 300 measurements
Operating temperature range	+10 °C to +40 °C
Operating air humidity range	15% to 90%
Storage conditions	-20 °C to +50 °C temp and 15% to 90% humidity
Dimensions	128 x 75 x 30 mm
Weight	Approx. 240g including batteries
Power supply	2 IEM rechargeable Ni-MH batteries (1.2 V and min. 2100 mAh)
Interfaces	<ul style="list-style-type: none">• Serial port (cable) compatible for USB Emulation• Infrared• Bluetooth (Class 1/100m)

The Pulse Wave Analysis Measuring Method



Example of a PWA. The oscillometric blood pressure measurement is combined with Pulse Wave Analysis making it very convenient for the patient.

Subject to change without notice.

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