


Medidyne MAKING A DIFFERENCE



Technology Expert in Hypertension Management

A woman with long brown hair, wearing a white lab coat over a dark blue top, is shaking hands with a male doctor in a white lab coat. They are in a clinical setting with a white bed and a framed picture on the wall. In the foreground, a Medidyne MOBIL-GRAPIH 24000000 blood pressure monitor is shown with a blue cuff. The cuff has the text 'M 24-32 cm 9.5-12.6 inch' and 'CE' with a symbol. The monitor's display shows 'SYS 134' and 'DIA 86'.

PULSE WAVE ANALYSIS

Technology Expert in Hypertension Management

Quality medical devices made in Germany

I.E.M. is a German manufacturer of medical devices in the field of cardiovascular disease management. As technology experts in hypertension management, we provide our customers with solutions from screening and diagnostics to follow-up management.

In addition to information about our products and services, we also offer concepts and information about hypertension in multiple languages. Our global network provides us information and ideas that have a direct influence on our development, product design and marketing concepts.



The I.E.M. headquarters is located in Stolberg, Germany.

- Mobil-O-Graph® PWA - High comfort cuff based technology**
- Clinically validated against invasive measurement technologies.
 - Excellent reproducible measurement method.
 - More than 200+ published papers.
 - Operator independent – single, sequential and ambulatory measurements.
 - Easy and quick performance can be processed by your medical staff.
 - High patient acceptance due to convenient measurement technologies.
 - Patient Database, software export functions and HIS interface.

24h ABPM & Pulse Wave Analysis

One device for measuring central blood pressure, arterial stiffness and hemodynamics

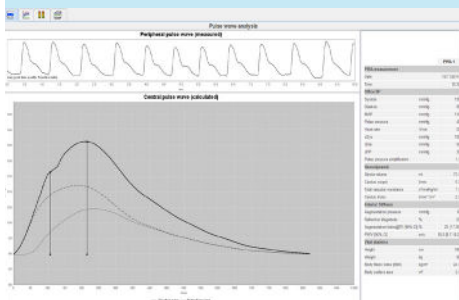


Parameters

- Blood Pressure (BP)**
- Peripheral BP and Heart Rate
 - Central BP

- Arterial Stiffness**
- Augmentation Index
 - Augmentation Index@75
 - Wave Separation Analysis
 - Aortic Pulse Wave Velocity

- Hemodynamics**
- Stroke Volume/ Cardiac Output
 - Cardiac Index
 - Total Peripheral Resistance



PWA software



The Mobil-O-Graph® PWA

Main Benefits of PWA for Nephrology:

- Aortic Pulse Wave Velocity as biomarker for life expectancy, especially for patients on dialysis treatment.
- Help to focus on patients who are in need of urgent treatment.
- Improved resource management for daily dialysis routine.
- Individualization of therapy, within dialysis and out-patient treatment, especially in case of chronic heart failure and hypertension.
- Individual check of medication efficacy and optimal use of substance classes.
- Less complication during dialysis, Pulse Wave Analysis as “Bio Feedback”, monitoring of cardiovascular system when reducing the patient’s volume.
- Improvement quality of life, treat to target, avoiding overtreatment.

Publications

Recent publications in the field of nephrology done with the Mobil-O-Graph®

- **Ambulatory pulse wave velocity is a stronger predictor of cardiovascular events and all-cause mortality than office and ambulatory blood pressure in hemodialysis patients.**

Sarafidis PA et al.; American Heart Association Hypertension. May 2017

- **Assessment of systolic aortic pressure and its association to all cause mortality critically depends on waveform calibration.**

Wassertheurer S, Baumann, M, Journal of Hypertension. September 2015

- **Evaluation of a novel brachial cuff-based oscillometric method for estimating central systolic pressure in hemodialysis patients.**

Sarafidis PA, Georgianos PI. American Journal of Nephrology. October 2014

- **Aortic to brachial pulse pressure amplification as functional marker and predictor of renal function loss in chronic kidney disease.**

Wassertheurer et al. The Journal of Clinical Hypertension. April 2014

- **Aortic pulse wave velocity predicts mortality in chronic kidney disease stages 2-4.**

Baumann M, Wassertheurer et al.; Journal of Hypertension. April 2014

- **A prospective observational study comparing a non-operator dependent automatic PWV analyzer to pulse pressure, in assessing arterial stiffness in hemodialysis.**

I Salvade et al, BMC Nephrology. April 2015

Distribution Contact

Denmark

Medidyne A/S, www.medidyne.dk

Sweden

Medidyne AB, www.medidyne.se

Finland

Medidyne Oy, www.medidyne.fi

Personally & Professionally
WE SERVE

WE CARE

Manufacturer Contact

I.E.M. GmbH

Cockerillstraße 69,

52222 Stolberg, Germany

phone +49 2402 9500 0

fax +49 2402 9500 11

info@iem.de

www.iem.de