24h ABPM and Pulse Wave Analysis in one!

CLINICAL INDICATION

- Risk assessment (morbidity & mortality)
- Therapy decision
- Patient guidance

PRODUCT FEATURES

- Auto-Feedback-Logic (AF®-Logic)
- Office, 24h and clinic monitoring
- Arterial stiffness, central blood pressure and haemodynamic analysis (peripheral resistance and cardiac output)

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

- Method of calibration of measurement of central aortic pressure and prediction of all-cause mortality in chronic kidney disease.
  Alberto Avolio; Mark Butlin. Journal of Hypertension. September 2015

  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.

- 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
VALIDATIONS

▪ Peripheral BP

  ▶ BHS Validation A/A - Validation of the Mobil-O-Graph®: 24h blood pressure measurement device;

  ▶ ESH Validation - Evaluation of the Mobil-O-Graph® new generation ABPM device using the ESH criteria;
  Franssen PM, Imholz BP; Department of Internal Medicine, Radboud University Nijmegen Medical Centre, Netherlands, Blood Pressure Monitoring. January 2010

▪ Pulse Wave Velocity – arterial stiffness

  ▶ Oscillometric estimation of aortic pulse wave velocity: comparison with intra-aortic catheter measurements

  ▶ Comparison of an Oscillometric Method with Cardiac Magnetic Resonance for the Analysis of Aortic Pulse Wave Velocity
  Feistritzer HJ, Reinstadler SJ, Klug G, Kremser C. University Clinic of Internal Medicine III, Cardiology and Angiology, Medical University of Innsbruck, Austria. January 2015

▪ Central BP – invasive comparison study

  ▶ Validation of a Brachial Cuff-Based Method for Estimating Central Systolic Blood Pressure
  Weber T, S Wassertheurer, Rammer M. Cardiology Department Klinikum Wels-Grieskirchen, Wels, Austria Journal of the American Heart Association Hypertension. September 2011

  ▶ Comparison of invasive and brachial cuff-based noninvasive measurements for the assessment of blood pressure amplification

▪ Haemodynamic analysis – cardiac output & stroke volume

  ▶ Modeling arterial and left ventricular coupling for non-invasive measurements