



Finapres Medical Systems

Portapres®

non-invasive hemodynamics



Optimal portability

The Portapres® is the ambulatory Finapres technology solution. On top of standard ambulatory blood pressure monitoring (ABPM) the Portapres® offers insight into hemodynamic parameters such as stroke volume and cardiac output. For almost 20 years the technology has proven itself in clinical settings, high altitude research on mountain heights and in space by top scientific institutes like NASA. Data can be stored and retrieved using the BeatScope® software.

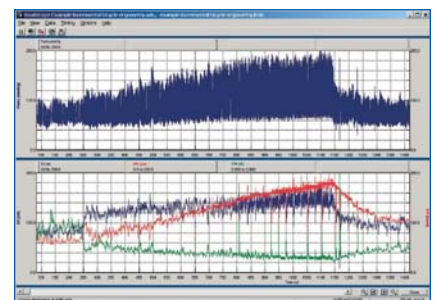
More than ambulatory blood pressure monitoring (ABPM) only

Ambulatory blood pressure monitoring (ABPM) is used in sleep studies and to establish 24 hour blood pressure profiles. Standard ABPM devices measure on set intervals (each 15-30 minutes) blood pressure only. With Portapres® short and long term hemodynamic changes will become visible. Portapres® can measure beat-to-beat blood pressure not losing any information between intermittent measurements. Furthermore other hemodynamic parameters such as pulse rate variability (PRV) and baroreflex sensitivity (BRS) can be retrieved. In most countries insurance companies have included ABPM measurements in their reimbursement system.

Exercise

The Portapres® can easily be used during exercise as long as the hand can be kept in a reasonable stable position. Generally speaking the arm is wrapped with a mitella or other bandage to assure optimal conditions. In case the hand can be fixed in another way such as holding a handhold during an incremental bicycle ergometry test a mitella is not needed.

The picture shows the hemodynamic parameters from a healthy young subject during an incremental bicycle ergometry test.



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Comfort and duration

The main unit is located in the waist belt and weighs about 1.5kg (3.3 lbs). The front end unit located at the wrist connects the main unit with the finger cuffs. Patients are fully ambulatory like they would be using a standard Holter system. The dual cuff system provides the option to switch between fingers assuring fingers can rest on set intervals. This increases patient comfort compared to single cuff systems. The Portapres® is a true ambulatory blood pressure monitor with built in memory card for over 60 hours of recording. Offline BeatScope® software offers full insight in the patients hemodynamics.

Sleep through the night and monitor circulation concurrently!

Non-invasive beat-to-beat blood pressure monitoring provides important information about the circulation of patients during sleep. The Portapres® is widely preferred in comparison to arterial lines for patient comfort and to avoid possible infections. The Portapres® allows patients to sleep comfortably throughout the night. The dual cuff system makes it possible to switch between fingers on set intervals permitting continuous measurements for up to 60 hours.

Assessing patients with an increased risk for heart failure

Cardiac output (CO) and baroreflex sensitivity (BRS) as well as other hemodynamic parameters are important to assess the risk for hypertension, cardiomyopathy and ischemic heart disease. Finapres devices are widely used in research and clinical settings to assess the circulation of a patient. Finapres devices are risk free and offer a high level of comfort due to the absence of an arterial line. Leading pharmaceutical research companies are using Portapres® devices in clinical trials due to their non-invasive nature, a very patient friendly and cost effective choice compared to arterial lines. Ease of data acquisition is an important factor in the time to market for pharmaceuticals. Finapres devices are easy to use and a wide variety of hemodynamic parameters are available for real time and offline data collection and analysis.

Hemodynamic parameters

For a full overview of parameters available using the Portapres® in combination with BeatScope® software please visit www.finapres.com

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