

IEM 221 24HR CBP MONITOR

*Evaluation
of Central
Blood Pressure
over a 24hr
period -
Simplified
Clinical
Assessment*



Indications revealed through CBP

- Congestive heart failure NYHA 2-4
- Dilatative cardiomyopathy
- Therapy-resistant hypertension
- ISH in young and adolescents

Pulse Wave Monitoring for Central Blood Pressure Assessment for Improvement of Therapy Decisions and Risk Stratification of Arterial Hypertension

- Peripheral blood pressure
- Central aortic blood pressure (cBP)
- Augmentation index (AIx): (\geq Age 40)
- Augmentation pressure

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

LEM 221 24HR CBP MONITOR provides information about vital hemodynamic and vascular parameters during daily life.

The measurement procedure is identical to a conventional office BP and/or 24hr-ABPM reading.

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

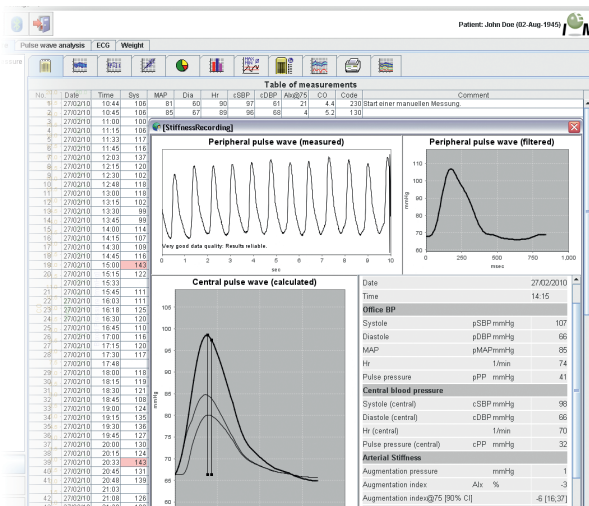
HMS CS Analysis Software

HMS CS is a desktop analysis software for use in hospitals, physicians' offices and clinical research.

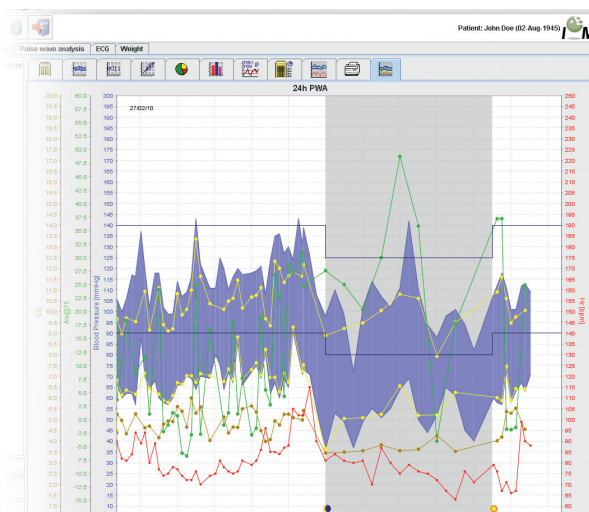
Pulse Wave Analysis (cBP) is displayed in tables and easy-to-follow graphical reports, providing a comprehensive statistical assessment.

*Literature:

- 1 Validation of a Brachial Cuff –Based Method for estimating Central Systolic Blood Pressure. Mayer et al. Hypertension, 2011 Nov;58(5):825-32
- 2 A new oscillometric method for pulse wave analysis (cBP); comparison with a common Tonometric method. Van der Giet et al. Blood Press Monitoring 2010 Aug;15(4):225-8



Tabular and graphical cBP analysis over 24hr



24hr cBP profile



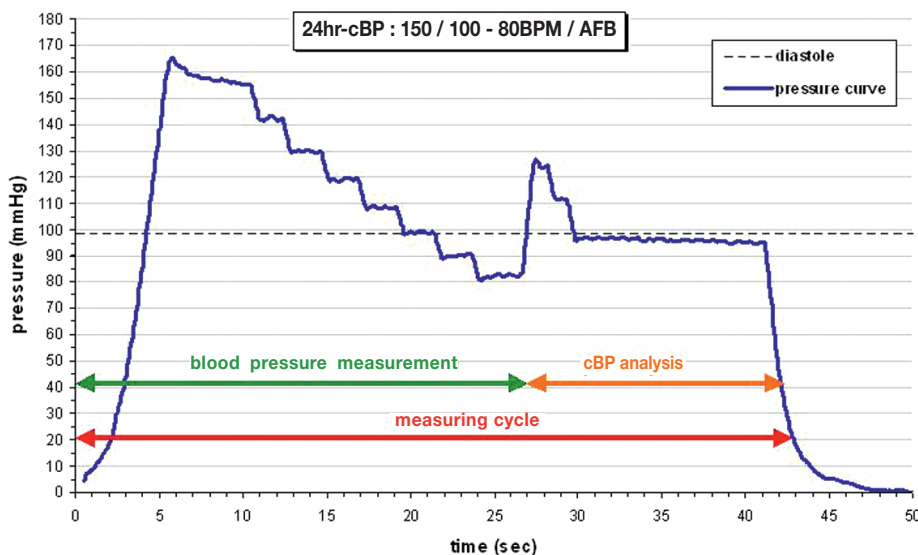
TECHNICAL SPECIFICATIONS

IEM 221 24HR CBP 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)
Central BP is pending with 2019 FDA approval	

Central BP qualifies for additional reimbursement using CPT Code 93050!

The Pulse Wave Analysis Measuring Method



Example of a cBP. The oscillometric blood pressure measurement is combined with Central Blood Pressure Analysis making it very convenient for the patient.