



MOBIL  GRAPH<sup>®</sup>

# 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

**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

 **MDPRO**  
IEM 221 24HR CBP MONITOR

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**888.602.PROS**



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

IEM 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 invasive<sup>1</sup> and non-invasive<sup>2</sup> reference methods.

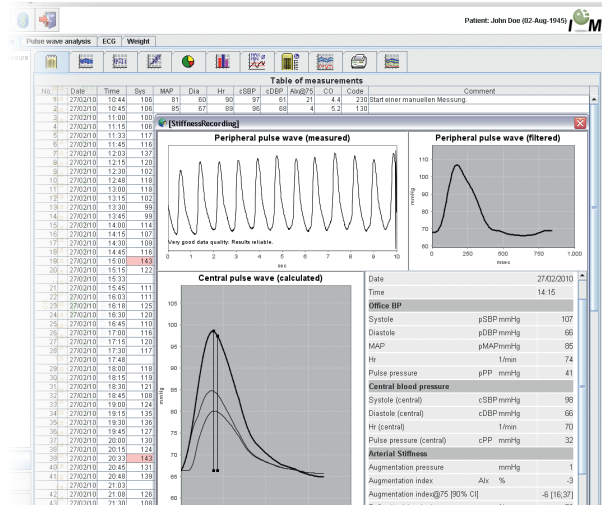
### HMS CS Analysis Software

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

Data 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



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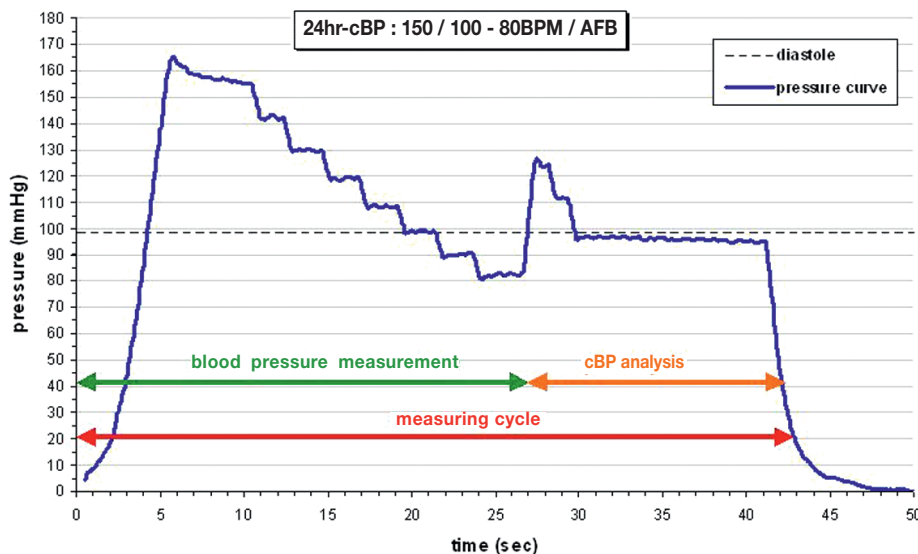


## TECHNICAL SPECIFICATIONS

### IEM 221 24HR CBP MONITOR

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

**Central BP qualifies  
for additional  
reimbursement using  
CPT Code 93050!**



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