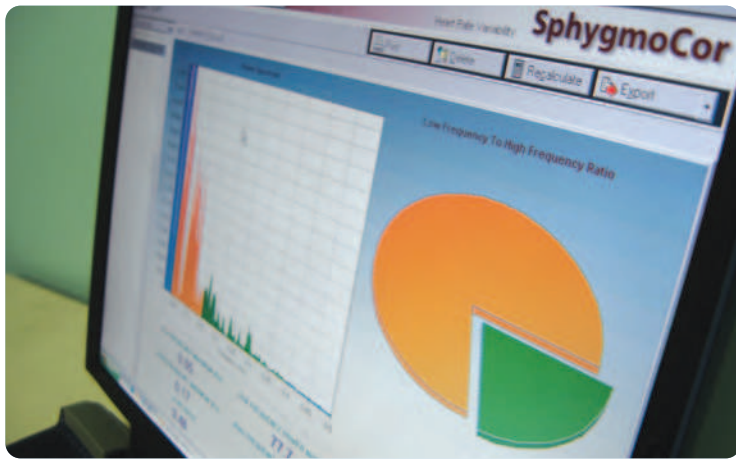


SphygmoCor® Hx

The SphygmoCor® Hx Heart Rate Variability System provides a non-invasive means of quantifying cardiac autonomic activity. The SphygmoCor® Hx System allows assessment of sympathetic and parasympathetic autonomic function.



Heart Rate Variability measurement has widespread application in clinical medicine. Numerous studies have reported the importance of HRV measurements and correlations in various patient groups, including:

- Powerful predictor of mortality and arrhythmic complications in patients following acute MI.
- Early subclinical detection of autonomic dysfunction in diabetes and uraemic patients allowing risk stratification and subsequent patient management.
- Close correlation with left ventricular mass in hypertensive patients. Patients with LVH have a significantly increased

cardiovascular risk, indicating a possible connection between autonomic function and cardiovascular disease in essential hypertension patients.

- In elderly patients, HRV is associated with all-cause mortality and provides prognosis beyond traditional cardiovascular risk factors
- Close correlation between HRV measurements and functional status of chronic heart failure patients.

As a result, HRV is being increasingly utilised in clinical research and practice.

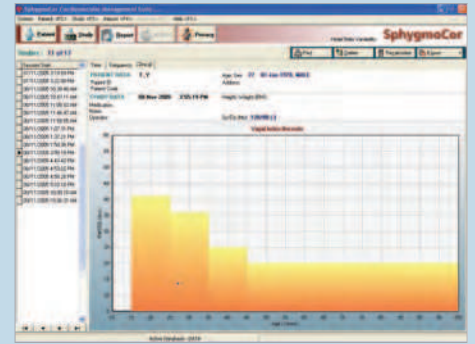
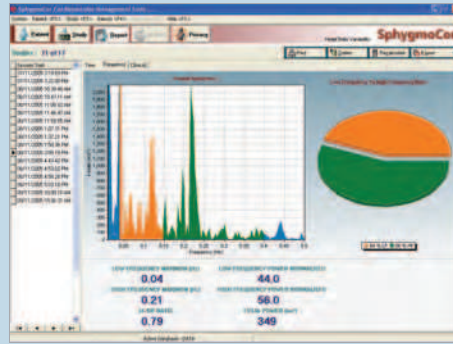
Features and Benefits

The SphygmoCor® Hx System is sold as an add-on to the SphygmoCor® Px System. The SphygmoCor® Px/Hx System:

- Provides a comprehensive assessment of the key clinical cardiac parameters including central blood pressure, arterial stiffness and autonomic function.
- HRV can be assessed using 3 different modes; supine rest, valsalva manoeuvre, and stand manoeuvre.
- Calculates both time and frequency domain parameters, including the vagal index plotted against normal values for age.
- Is a simple to use, doctor's office device.

System Specifications

SphygmoCor® Heart Rate Variability System: Model SCOR-Hx



Standard system configuration

- SphygmoCor® signal processing electronics module
- SphygmoCor® software system
- ECG Cable & Leads
- System documentation

Performance and operating specifications

Report format

Patient Time Domain Report includes:

- R-R Interval graph, R-R Distribution Histogram, and R-R Poincare Plot
- Time parameter including RMS SD, HRV Index, and PNN50.

Patient Frequency Domain Report includes:

- Power spectrum chart and frequency pie chart
- Low and high frequency maximums, low to high frequency ratio, and total power

Patient Clinical Report includes:

- Vagal Index plotted against normal values for age

Patient Valsalva Report includes:

- Valsalva High and Low values
- Plot of Valsalva Ratio against normal values for age

Patient Stand Report includes:

- Stand High and Low values
- Plot of Stand Ratio against normal values for age

Software features

- Integrated with SphygmoCor® Px Pulse Wave Analysis System
- Choice of 3 different modes:
 - Supine resting
 - Valsalva manoeuvre
 - Stand manoeuvre
- ECG recording and R-R Interval graph can be displayed
- Export Function allows data to be readily analysed with Excel, SPSS, etc
- Up to twenty patient databases can be set up for different studies
- Batch printing of selected reports
- Two capture windows for real-time data capture featuring:
 - Auto-scaling of ECG waveforms
 - Real-time display of the entire R-R interval plot
 - Display of the previous 5 seconds of ECG waveforms

Minimum computer requirements

- IBM compatible PC: Pentium III Processor 1 GHz; 51MB RAM; 1024x768 SVGA Display; 100 MB initial free hard disk space (more for data storage), CD-ROM drive
- Equipment interface: RS-232 serial or USB port
- Operating System: Windows 98SE/ME/2000/XP
- Printing: Windows Compatible Printer

Operating conditions:

- Ambient temperature: 15-30°C
- Relative humidity: 20-80%

Power supply (mains power):

- 220-240 VAC, 50 Hz
- 100-110 VAC, 50/60Hz
- 12VA

Regulatory

- IEC 60601-1/ AS/NZS 3200.1 (amendments 1 and 2) Electromedical Equipment Safety standard
- IEC 60601-1-2 Electro-Medical Equipment, ElectroMagnetic Compliance (EMC) Standard



CE 0120

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The SphygmoCor® CP System

The gold standard in noninvasive central blood pressure assessment

SphygmoCor technology is the gold standard for noninvasive measurement of central blood pressure. It is fully validated and has been featured in hundreds of published clinical studies. It is used in leading medical centers worldwide and in pharmaceutical clinical trials.

The SphygmoCor CP system acquires the patient's radial pulse waveform noninvasively by applanation tonometry, derives the pressure waveform of the ascending aorta and reports vital central blood pressure data.



Features

Instantaneous calculation of key parameters, including

- **Central Pressure Waveform**
- **Aortic Pulse Pressure**
- **Aortic Systolic Pressure**
- **Aortic Augmentation Index**
- **Ejection Duration**

Automatic, real-time QA feedback leading to minimal operator variability

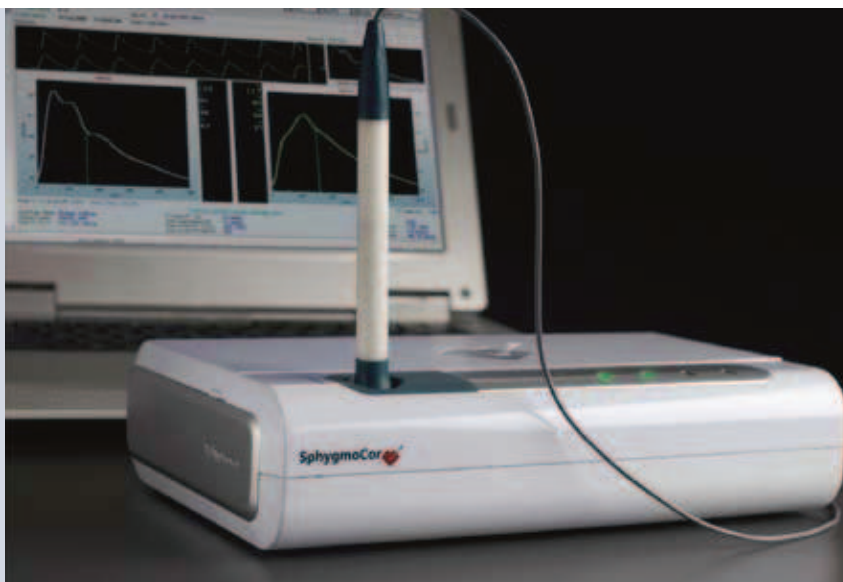
Noninvasive test, comfortable for patients, no disposables needed

Benefits

- Central pressure has been shown to be a superior, independent predictor of future cardiovascular events than peripheral pressure
- Allows assessment of drug effects that cannot be detected with brachial pressure measurements
- Provides patients with visual evidence of the effects of lifestyle changes and drug therapies

System Specifications

SphygmoCor® CP System



SYSTEM SPECIFICATION

Product Configuration

PRODUCT

INPUTS

Physical and Environmental Specifications

Input Signal Specifications

INPUT

SPECIFICATION

PC Interface Specifications

SPECIFICATION

Minimum Computer Requirements

IBM compatible PC or notebook computer with:

Regulatory

- FDA clearance
- EU CE Mark (MDD, ANNEX II, Class IIa)
- MHLW, Japan
- TGA, Australia
- IEC 60601-1/ AS/NZS 3200.1 (amendments 1 and 2)
Electromedical Equipment Safety standard
- IEC 60601-1-2 Electro-Medical Equipment, Electro Magnetic Compliance (EMC) Standard

