



A new era in **Cardiac Output** monitoring  
From the lab to the clinic

### **PhysioFlow® Lab1™ Parameters**

- Stroke Volume/Index
- Cardiac Output/Index
- Early Diastolic Filling Ratio (Preload Index)
- Systemic Vascular Resistance (Afterload)
- Left Cardiac Work Index (surrogate of MVO<sub>2</sub>)
- Contractility Index
- Ventricular Ejection Time
- Ejection Fraction (est.)/End Diastolic Volume (est.)

### **For Multiple Applications**

- Cardiology/Heart failure
- Internal Medicine/Hypertension
- Critical Care/Anaesthesia
- Emergency
- Pulmonology/COPD
- Hemodialysis
- Obstetrics
- Physiology/Sports Medicine
- Research and Clinical Studies

...and enhanced diagnosis based on analysis of signal abnormalities



Routine hemodynamic  
evaluations



Intensive care monitoring



Assessment of performance  
limiting factors

# Cardiac Output monitoring at rest and during exercise

The well established PhysioFlow® **Signal Morphology-based Impedance Cardiography** (SM-ICG™) technology has been fully validated in the last ten years, resulting in more than 40 international peer-reviewed publications and a market presence in over 35 countries.

Its accuracy is **comparable to invasive techniques** and its clinical reproducibility and sensitivity are unsurpassed. PhysioFlow® pushes the limits of noninvasive cardiac output monitoring in general and thoracic electrical bioimpedance in particular by broadening applications where continuous noninvasive cardiac output measurements are made possible: **exercise at all levels, obesity, thoracic fluid overload, COPD, low cardiac outputs etc.** The PhysioFlow® core technology has been approved in many countries, including Europe, Japan, Canada, and recently by the US Food and Drug Administration.

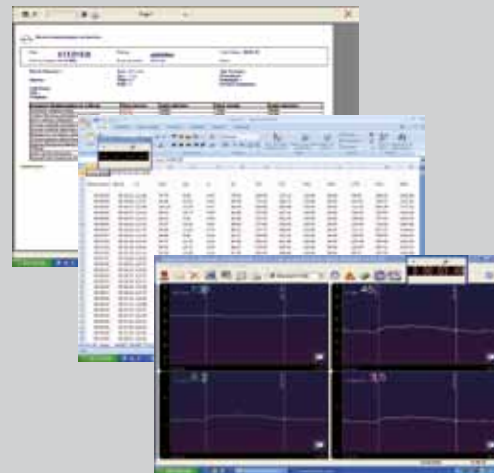
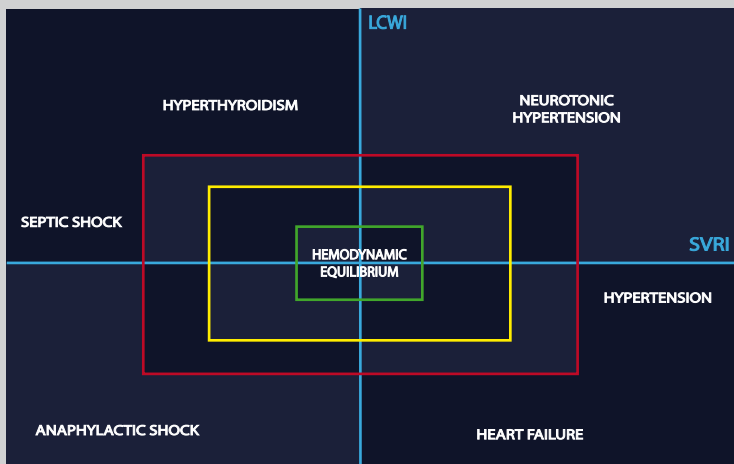
- Signal Morphology-Impedance Cardiography (SM-ICG™): Accurate, Reproducible and Sensitive
- Noninvasive, cost effective and easy to use
- Virtually all patients can be effectively measured
- HD-Z™ high performance signal stabilization filter

## PhysioFlow® Lab1™ Features:

- Dimensions: 343 x 260 x 82 mm
- Weight: 4.2 kg
- 6 pre-gelled thoracic surface electrodes
- Connections: Patient cable PF092 (length 4 meters), RS232 serial link, Power cable (220V-50Hz, 110V-60Hz), Analogue output
- Options: Optical cable serial link (or USB adaptor), Lengthened patient cable (10 meters)
- OS: Windows™XP SP2 or later, Windows 7 or later,
- RAM: 512 MB, Hard Drive 100 MB free, 14 inch XVGA screen, processor 1.4 GHz X86
- Any MS-Windows compatible printer

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## A breakthrough concept: the Hemodynamic Cross

A graphic representation of the Vascular Resistance/Cardiac Work equilibrium, for more accurate and faster diagnosis and assessment of the hemodynamic impact of a treatment

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