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PicoPress®

Compression Measurement System

PicoPress® was created to **measure interface pressures such as the pressure exerted by elastocompression in both static and dynamic conditions**.

The fact that it is so easy to use (no syringes or stopcock valves) means that it can be **easily used with minimal training**.

Since the **pressure can be constantly checked**, studies monitor pressure at multiple times and multiple locations.

By monitoring the pressure applied by the bandage, PicoPress® provides **replicable, reliable, documentable compression levels**.

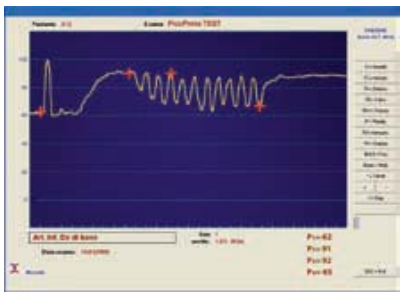
PicoPress® **does not need to be calibrated** before use.

Pressure measurement beneath the elastic stocking and beneath the bandage.

Measurements can be taken repeatedly over a period of time as the sensors can be left under the bandage. Manufactured in non-allergenic bio-compatible material, it is 200µ thick and highly adaptable to the patient's leg.

Technical Characteristics of PicoPress®	
Measurement Interval	0 ÷ 189 mmHg
Buttons	on/off and menu choice
Display	16 columns liquid crystals, 2 lines
Resolution	12 bit analog to digital converter
Languages	Italian, English, German, French
Supply	rechargeable internal batteries
Autonomy	more than 5 hours of continous use
Body	crush-proof plastic
Weight	350 grams
Dimensions	180 x 90 x 32 mm
Insulation	class II type BF

PicoPress® runs on high capacity batteries which, besides guaranteeing safety, make its use practically costless.



Visualisation of the pressure curve during a dynamic test.

PicoPress® can **memorise as many as 100 readings** visible on the display (autonomously with PC) and **downloaded on a personal computer (PC) using a USB connection**. If connected to a PC utilising the furnished software it is possible to visualise and to record the pressure readings taken during the dynamic tests.

PicoPress® Equipment
Carrying case made in soft anti-crush material
Battery charger
Technical manual
Operating software
USB connection cable
5 disposable transducers

Case studies and published evidence

The importance of measuring the sub bandage pressure and the presentation of a new measuring device

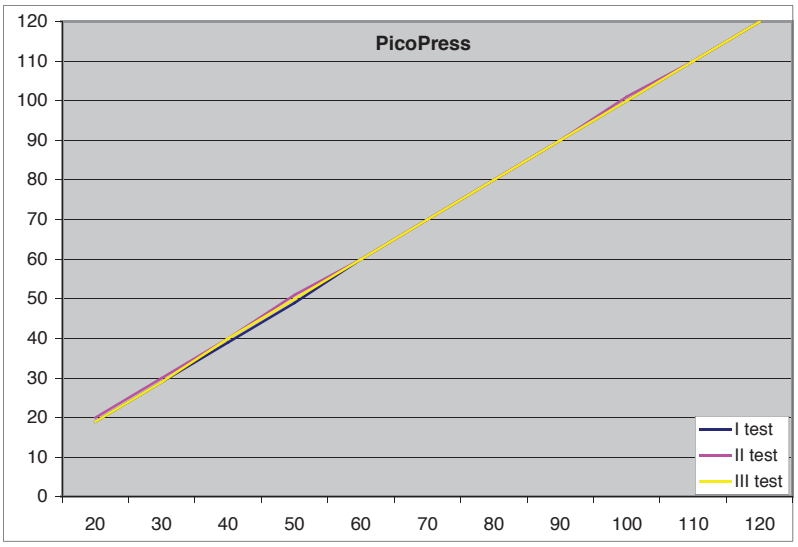
Mosti, Giovanni, Angiology Unit, Clinica MD Barbantini, Lucca; Rossari, Susanna, Interunivesity Centre for Biological and Psychosomatic Dermatology (CIDEBIP), University of Florence.

Summary
Introduction: compression therapy by means of bandage is extremely effective for venous ulcers on condition that the bandage is applied correctly. If applied too loosely the bandage will be ineffective, if too tight it will cause pain, could be intolerable and even harmful. Checking the sub-bandage pressure is therefore extremely useful but the measuring device must be easy to use and the resulting data accurate and reproducible. The aim of this study is to underline the need of assessing the sub-bandage pressure and to present a new measuring device.

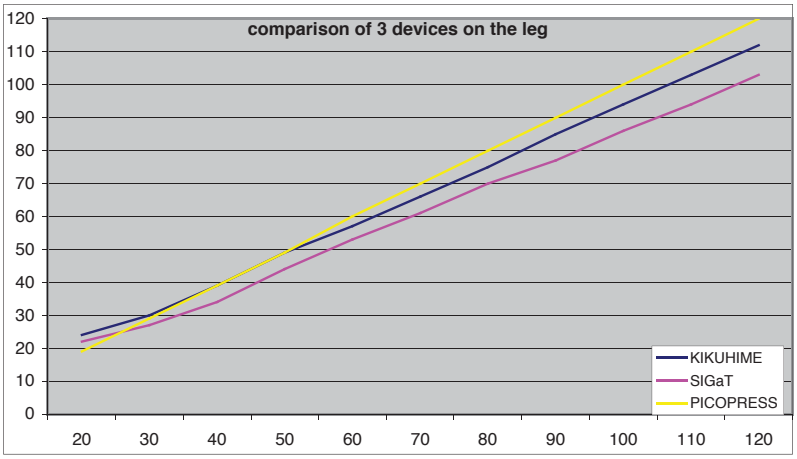
Materials and methods:
PicoPress® is a new pneumatic measuring device equipped with an ultra flat probe into which 2 cc of air are inflated before each measurement. As the instrument does not require calibration, a series of successive measurements can be carried out even with the probe positioned under the bandage. Accuracy, linear response at different pressures and reproducibility, have been verified in the laboratory and in vivo.

Results:
Both in the laboratory in vivo, PicoPress® showed accuracy, linearity with the theoretical pressure values applied and high reproducibility. These parameters are reliable in the devices already available on the market but even more with PicoPress®. The calculation of the Static Stiffness Index was more accurate too.

Discussion and conclusions:
There are many indications to measure the sub bandage pressure but accurate and reproducible devices are required. PicoPress® seems to have these characteristics.



Accuracy and linearity with the pressure of the Hg manometer that exerts a pressure varying from 20 to 120mmHg and reproducibility of PicoPress®; probe fixed to the leg.



Comparison between Kikuhime, SIGaT, PicoPress® (average of 3 measurements) for measurements accuracy with a probe fixed on the leg; the manometer superimposed on the probes exerts a pressure varying from 20-120mmHg.