

# Reviscometer® RVM 600 – Interesting Aspects of Skin Ageing

Determining the various parameters of the mechanical properties of skin has an established role in scientific bioengineering studies.

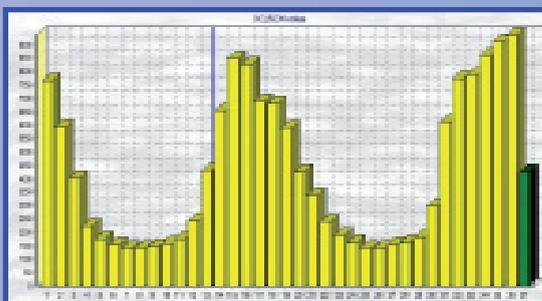
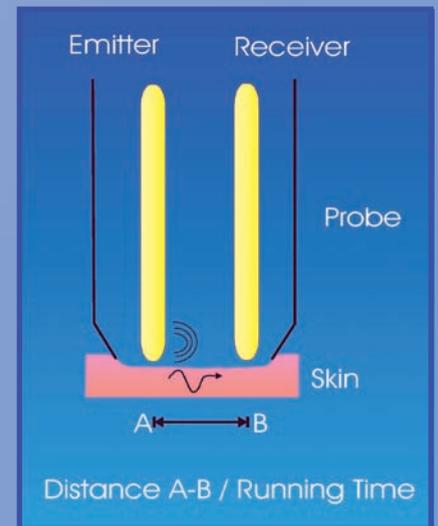
The new aspect of the measurement - based on Resonance Running Time of the Reviscometer® RV The Reviscometer® with its unique measurement method is an ideal addition to the very well established suction measurement method of the Cutometer® and allows besides the efficacy testing of anti-ageing products, the investigation of new interesting fields such as orientation of incision during cutaneous surgery, relation between body mass index and elasticity, photoageing and many more. Interesting literature is available.

## The Measuring Principle

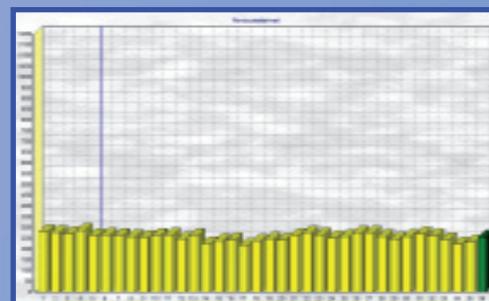
The measurement is based on resonance running time of an acoustical shockwave determines in addition to mechanical properties of the skin the direction of collagen and elastin fibres.

The probe head contains two sensors which are placed on the skin. The first is emitting one acoustical shockwave, the other serves as receiver. Shockwaves propagate differently through the skin according to the state of the elastic fibres and the moisture content of the skin. The time the wave needs to travel from emitter to receiver is the measured parameter.

Measurement at different angles on the same body site correlates extremely well with the anisotropy of the Langer lines, thus with the biological age.



age 40



infant

A positioning ring fixed with a double sided sticking ring makes it possible to measure in 10° steps so that on one skin site a measurement in all directions is possible. The clear scale makes handling very comfortable.

## The Probe

The modern, high quality electronics of the probe allow a very quick, easy and precise measurement. Its low weight assists in ease of handling.

Together with the Cutometer® MPA 580, which measures the viscoelastic properties by suction, the Reviscometer® RVM 600 can form an "elasticity measurement centre" to examine biological age of the skin from different angles.

## Check Calibration

The new technology of the Reviscometer® RV 600 does not require frequent, complicated and time consuming recalibration. The accuracy of the device can easily be checked at any time on a special silicone material.

## Technical Data

Dimensions: 12.8 cm, Ø 2.7 cm, Weight: 109 g, Measurement area: Ø 8 mm,

Measurement Principle: Resonance Running time of one single acoustical shockwave of approx. 1.77 micro Joule Distance between emitter and receiver: 2 mm

Technical changes may be made without prior notice.

