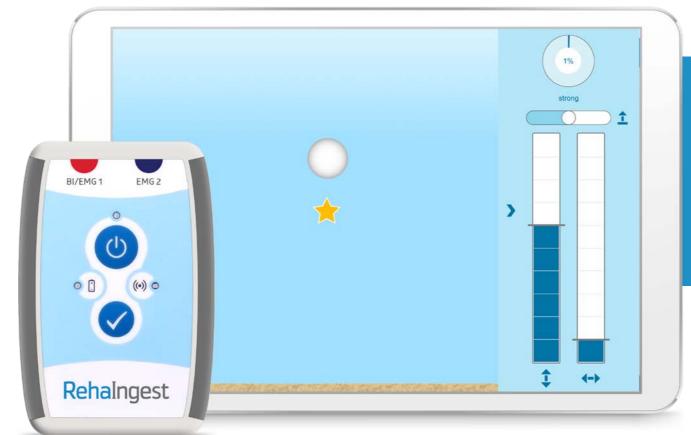
Long-Term Measurement

Rehalngest schedules swallowing activity for up to eight hours. Swallowing frequency gives therapists information about patients swallowing activity over time.



more information: **rehaingest.com**

Skill and Strength Training



Long-term measurement for up to 8h Biofeedback therapy Objective swallow detection in real time Direct control of success during therapy 3D animation replay of swallows Evaluation and report function Breathing measurement (optional)

Get in touch with us: +49 391 6107 645

Rehalngest®

Long-term Swallowing Measurement and Biofeedback



Fax: +49 (0)391 6230 113

HASOMED

Real-time Swallowing Detection and Long-term Measurement

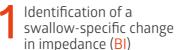
Rehalngest is the world's first system for measuring swallowing performance through signals from electromyography (EMG) and bioimpedance (BI) at the same time. The pharyngeal swallowing phase can be displayed and evaluated objectively.

The values are derived via adhesive electrodes attached to the neck. A template makes the precise positioning easier. A measuring module, which serves as an interface between the electrodes and the software, collects the data.

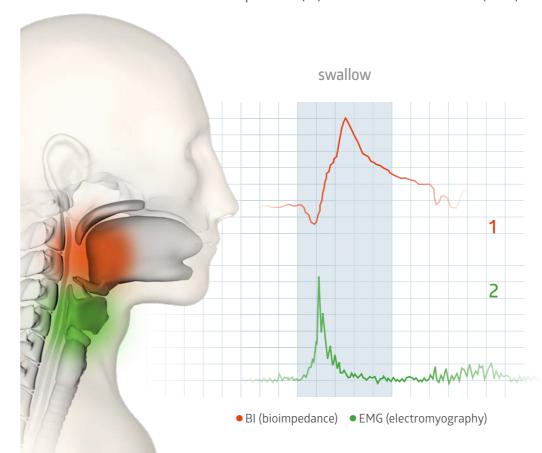


Markings on the result curves provide online annotations on the success of the swallowing process. For evaluation, each swallow recorded is evaluated with consistency-specific reference values for the extent and speed of laryngeal elevation. A 3D animation replay makes the course of the swallow visible. Measurement results can be compared, displayed and exported.

For automatic swallowing detection, Rehalngest combines a two-step procedure: The simultaneous change of resistance caused by lifting ton-gue base and thyroid cartilage leads to a shift in **bioimpedance** (step one). The second step uses **EMG**, which determines the activity of the suprahyoid muscle **while the larynx is lifted**. Rehalngest identifies the resulting changes in bioimpedance and logs it as swallow.







NEW: Biofeedback Therapy

Individually adaptable biofeedback modules visually support the awareness of the swallowing process. Biofeedback trains the patient's swallowing skills based on **neuroplasticity**. Continuous processing improves and strengthens the swallowing of the patient. The biofeedback training provides **motivation** and **rewards** the patient.

