

EXCERPT

**Observational Study
Repetitive Transcranial
Magnetic Stimulation with
GLAD-X[®] LS**

by Dr. med. Oliver Seemann
Interim Analysis for November 20th, 2018

Analyzed by
k.u.k. Datentechnik GmbH

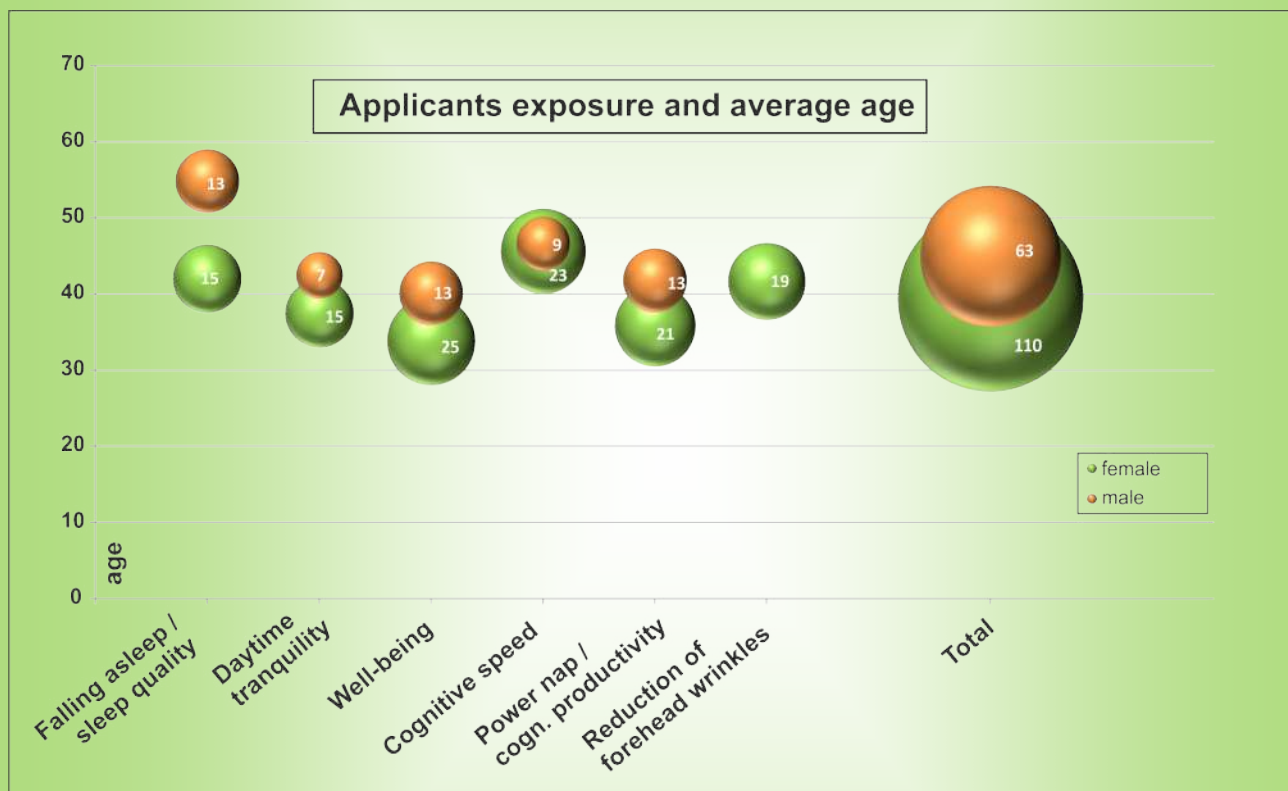
8 Summary

8.1 Gender/Age

Of 173 documented and evaluable test subjects, 63(36.4%) were male and 110 (63.6%) were female. The average age was 41.5 years for a range of 18 to 66.

8.2 Indications for GLAD-X® LS application

The most common reasons for the application of GLAD-X® LS were improvement of well-being (22.0%), power napping / cognitive productivity (19.7%), cognitive speed (18.5%) und falling asleep / sleep quality(16.2%).



8.3 Treatment

The average treatment with GLAD-X® LS was performed over 4 weeks at one hour daily, however for test subjects with sleep improvements, GLAD-X® LS was activated half an hour before the planned bedtime and for test subjects for power napping, GLAD-X® LS was activated for 12 minutes.

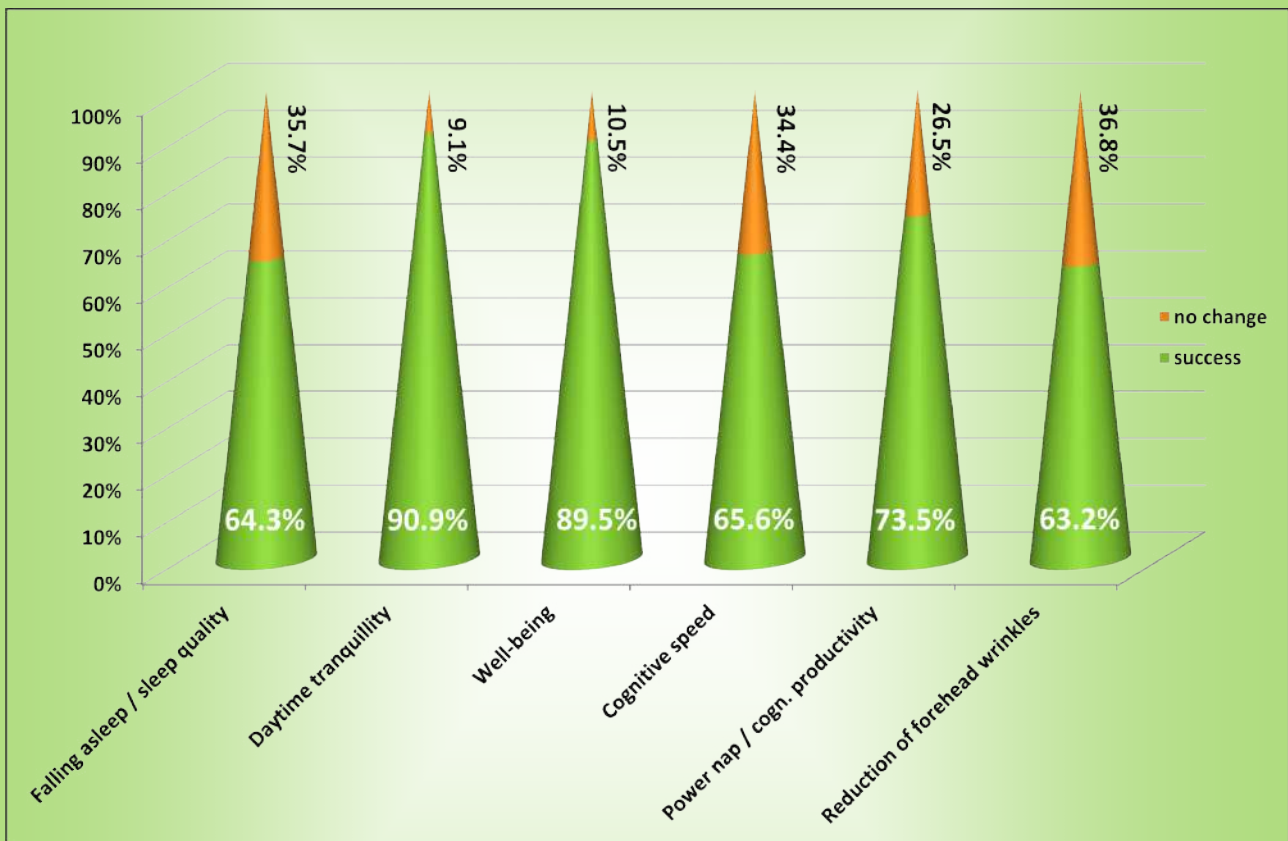
8.4 Results

Results were monitored before and after complete treatment cycle (4 weeks) for sleep quality (Pittsburgh sleep quality index), daytime tranquility (Standard deviation of RR intervals HRV), well-being (WHO-5 questionnaire), cognitive speed (number connection test), reduction of forehead wrinkles (numeric rating scale).

Cognitive productivity (power nap) was monitored using d2-R test (Brickenkamp) before and after GLAD-X® LS induced power nap and summed up for a total of 12 tests (3 times weekly).

8.5 Response

For 130 (75.1%) of 173 evaluable test subjects success was achieved. Response rates varied between 63.2% for reduction of forehead wrinkles (19 test subjects) and 90.9% for daytime tranquility (22 test subjects). **GLAD-X® LS is therefore suitable to enhance and improve various aspects of life.**



8.6 Side effects/Safety

Only 2.4% of all documented participants showed side effects such as dizziness, fatigue, feeling of warmth. However, the manifestations were always mild in nature and disappeared completely after a short time. **The use of GLAD-X® LS can therefore be regarded to be a very safe procedure.**

8.7 Tolerability

96.2% of all patients described GLAD-X® LS to be well or very well tolerated. The use of **GLAD-X® LS is therefore extremely well tolerated.**



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