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Observational study on pain treatment and dysfunctions

A total of 4482 patients (2671 women, 1806 men) with a mean age of 53.6 ± 15.6 years (women: 54.5 ± 15.3 ; men: 52.3 ± 15.9 years) with various complaints took part in the observational study on the use of the Medkey (Keytec GmbH, Aachen). The aim of the Medkey treatments was to relieve pain and improve muscle and joint function. Patients with acute and chronic indications as well as organic and muscular dysfunctions were included in the study. The treating physicians, alternative practitioners, physiotherapists and occupational therapists conducted a standardised survey with the patients and documented the course of treatment.

The duration of therapy over several applications averaged nine minutes (F: 559 ± 520 s; M: 523 ± 506 s). From the beginning to the end of the therapy period, there was a 50% reduction in pain in the overall treatment group (F: 50.1%; M: 49.7%). 1291 patients, i.e. almost every third patient was completely pain-free at the end of treatment.

At the same time, there were positive changes in the pre-post comparison with regard to muscular dysfunctions. On a numerical rating scale from 1 to 100, the score before treatment was 36.0 and after treatment 18.5, which corresponds to an average improvement of 50.5% (F: 50.0%, M: 51.3%). Patients were also asked about their satisfaction with the treatment outcome using the Likert scale. The average score was 4.4 ± 0.8 (F: 4.3; M: 4.4) on a scale from 1 (not at all satisfied) to 5 (completely satisfied). There were no significant differences between women and men for any of the measurement parameters.

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