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Successful application of pulsed electromagnetic fields in a patient with post-COVID-19 fatigue: a case report

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Abstract in English, German

Background: Post-COVID-19 fatigue is a frequent symptom in COVID-19 survivors, which substantially limits patients to achieve full recovery and potentially restrains return to work. The previous literature has not yet reported the use of pulsed electromagnetic fields in this indication.

Methods: Over the course of 5 weeks, 10 sessions of pulsed electromagnetic field treatment with a high magnetic flux density were applied to a patient suffering from post-COVID-19 fatigue syndrome.

Fatigue, work ability, quality of life as well as anxiety, depression, stress level, and resilience were evaluated using validated patient-reported outcome measures.

Results: Fatigue, work ability, quality of life, and psychological well-being improved clearly over the course of the treatment and showed stable results 6 weeks later.

Conclusion: The use of pulsed electromagnetic field therapy with a device that allows sufficient penetration of the body tissue might be a promising physical modality to manage post-COVID-19 fatigue syndrome, which could reduce clinical and economic health consequences. Clinical shamcontrolled studies are needed to evaluate the effect of pulsed electromagnetic fields in this indication.

Keywords: Ion-induction therapy; Long COVID syndrome; Magnetic field therapy; PEMF; Rehabilitation.

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