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Osteopathic manipulative treatment in multiple sclerosis: a proof of concept study

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BACKGROUND

Osteopathic medicine (OM) is a form of drug-free, safe and non invasive manual treatment, which uses a manual approach to diagnose and treat "somatic disfunctions", with a demonstrated potential immune-modulatory effect.

METHODS

We evaluated the effects of OM on chronic symptoms of multiple sclerosis (MS). Twenty-three MS patients were randomly assigned in a 1:1 ratio to either an OM treatment (OMT) (N=13) or a sham treatment arm (N=10). All subjects at the same weekly time points underwent evaluation of clinical disability, quality of life, depression, fatigue and anxiety, using respectively Extended Disability Status Scale (EDSS), MS Quality of Life Instrument (MSQLI), Beck Depression Inventory (BDI), Modified Fatigue Impact Scale (MFIS) and Beck Anxiety Inventory (BAI). We used linear regression models to compare the change from the baseline value of each outcome between the intervention and control groups at different time points.



RESULTS

A statistically significant improvement of MFIS and BDI scores in the OMT group compared to the sham group (p=0.002 and p<0.001) was found, and MSQLI scores showed a trend towards improvement in the OMT group. After 6 months of follow-up, there was no statistically significant difference between OMT and sham groups.

CONCLUSIONS

We demonstrated OM should be considered in the treatment of MS patients' chonic symptoms

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