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Effects of eight-week home-based yoga and resistance training on muscle strength, functional capacity and balance in patients with multiple sclerosisMostafa Azimi¹, Seyedeh Shelir Hosseini² and Maryam Abolhasani³¹Sports Medicine Research Center, Iran²Kharazmi University, Iran³Tehran University of Medical Sciences, Iran

Background & Aim: Muscle weakness, fatigue and balance disturbances contribute to the reduction of daily activity in multiple sclerosis (MS) patients. Therapeutic strategies to promote improvements in muscle strength, functional capacity and balance are limited in individuals with MS. Yoga training (YT) is a most popular mind-body interventions and has been known to positively affect physical, mental and other symptoms of multiple sclerosis patients with moderate disability and other cases.

Materials & Method: This study was designed to determine effect of 8-week home-based yoga (YT) and resistance training (RT) on muscle strength, functional capacity and balance in 26 patients with multiple sclerosis (MS) with mild to moderate disability. 26 male and female patients (Age:31.3±9.0749) with mild to moderate disability, were recruited and randomized into three groups randomly: Yoga training (n=9) with three-times weekly home based Hatha Yoga training for eight weeks, resistance training (n=9) with three-times weekly home based resistance training program for eight weeks and control groups (n=8).

Results: The data analyzed using one way ANOVA showed; however, that Yoga Training (YT) had no significant effect on leg muscle strength, but home resistance training (RT) increased it. Also, functional capacity was not affected by any YT and RT, but the balance changed.

Conclusion: It seems that prescribing regular training programs with controlled intensity and time, particularly resistance training (RT) and yoga training (YT) can have a positive impact on the performance and improvement of MS patients' quality of life.

Biography

Mostafa Azimi has completed his MD from Tehran University of Medical Sciences and studying Sports Medicine as 3rd year Clinical Resident. He is the Scientific Director of Sportmedicine.ir website in Farsi. He is affiliated with Sports Medicine Research Center, Neuroscience Institute in Spine Group.

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