Delivering a Tele-Rehabilitation Based Exercise Programme to Promote Fitness in Perimenopausal Women: A Randomised Control Trial

Dr. Eden Mehdiabadi (PT)*, Dr. Apurv Shimpi, Dr. Suroshree Mitra (PT)

Institute College of Physiotherapy, 12, Thube Park, Shivaji Nagar, Pune- 411005, Maharashtra

*Corresponding author

ABSTRACT

Introduction: Healthcare systems have been swiftly adopting the use of tele-rehabilitation systems for health promotion. Indian women have a relatively earlier onset of menopause, but do not seek healthcare due to social inhibitions. Hence, reaching to them proactively through delivery of a tele-rehabilitation fitness program as against in-person health services may offer a solution towards enhancement of health related fitness and quality of life in perimenopausal women.

Methods: A randomised, single blinded, active control trial was conducted with 55 perimenopausal women (mean age 50.5 ± 3.5 years). A six week home-based exercise programme was delivered and monitored through tele-rehabilitation systems (group 1), and in-person (group 2). Outcome measures included body composition, cardiovascular endurance, muscular endurance, flexibility, and menopause specific quality of life. For intra-group analysis, paired t-test for parametric data and Wilcoxon signed rank test for non-parametric data was used while unpaired t-test and Mann Whitney-U test were used respectively for inter-group analysis with α set at p≤0.05 at 95% confidence interval. **Results:** Both groups showed enhancement in body fat percentage, VO₂ max, curl up, modified push up, squat, sit and reach test scores, and also reported an improved quality of life (p<0.05). Inter-group analysis of the outcome measures was not significant (p>0.05).

Conclusion: Tele-rehabilitation is an effective mode of delivering a proactive home based exercise programme to improve fitness and quality of life in perimenopausal women.

Keywords: Tele-rehabilitation, Perimenopausal women, Exercise program

ISBN: 978-81-954993-8-0; DOI: 10.21467/abstracts.130

