

#### عنوان مقاله:

The Effects of Resistance Training With and Without Electrical Muscle Stimulation on Body Composition of Obese Women

## محل انتشار:

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#### خلاصه مقاله:

Background and Purpose: Nowadays, total body resistance exercise has been added to instability training and has become popular for improving health and sports performance. Resistance training is a beneficial way to improve body composition and increase muscle strength. This study aims to evaluate the effect of suspension training (total resistance exercises [TRX]) with and without electrical muscle stimulation (EMS) on body composition and muscle strength in obese women. Materials and Methods: This quasi-experimental research is an applied study in terms of research goal. A total of ٣۶ Class 1 obese women (mean±SD age: ٣•.٩±۵.٣ years, mean±SD body mass: ٩۵.F±٩.F kg, mean±SD height: IFA.Y±Y.A cm) were randomly selected from qualified volunteers and grouped randomly into three groups (n=1) for each group): EMS, TRX, and TRX-EMS. The TRX group performed λ weeks of suspension resistance training (m sessions per week), and the TRX-EMS group performed the TRX exercises wearing a wholebody suit that provided electrical stimulation. EMS intervention includes " applications of 9. min/" days per week for A weeks. Data were analyzed by analysis of covariance at a significance level of o.oh using SPSS software. Results: Findings of this study demonstrate significant differences in body composition measurements among three groups after λ weeks of interventions (P≤o.oa). All three interventions increased muscle strength after λ weeks. TRX+EMS was the most effective intervention on body composition measures (-F. "% in body mass index [BMI], -Y. Y% in body fat mass [BFM], and +W.F% in skeletal muscle mass [SMM]) and muscle strength (Y1.9W% in BP-IRM and YY.F% in LP-IRM). Also, these findings may indicate that EMS was the least effective intervention on body composition and muscle strength compared with the TRX and TRX-EMS. Conclusion: According to these results, it is suggested that .obese women use EMS with suspension training to lose weight and improve body composition and strength

## کلمات کلیدی:

Resistance training, Electrical stimulation, Overweight, Body mass index (BMI), Muscle strength, Body composition

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