

Effectiveness of Zumba and Resistance Training on Anthropometric Standardization and Bioimpedance Analysis in Overweight Young Women

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Abstract

Background of the study: Overweight is a universal disorder due to lifestyle modifications and improper food habits. According to WHO the prevalence of overweight is 39% of adults aged 18 years and over. According to WHO, Overweight is defined as abnormal or excessive fat accumulation that presents a risk to health. The body mass index (BMI) over 25 is considered overweight and above 30 is obese.

Methodology: Group of 30 participants aged 18 to 25 who are overweight were chosen. participants into groups A and B (control group and experimental group). Group A was given walking and Group B was given Zumba and resistance training. Pre-tests were conducted using BIA and anthropometric standardization.

Results: The Mann-Whitney U test results confirm significant differences between Group A and Group B in the reduction of arm, chest, abdomen, and thigh sizes from pre- to post-test. The mean ranks for each outcome measure consistently indicate that Group B had significantly greater reductions compared to Group A, supporting the rejection of the null hypothesis (H0). The experimental intervention led to more substantial improvements in anthropometric measurements and body fat percentage.

Conclusion: We conclude Group B is effective in Anthropometric Standardization and BIA in Overweight Young Women.

