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The effectiveness of strength training on body composition and physical performances among older people with sarcopenic obesity

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Statement of the Problem: With the coming of aging society, international groups have also developed the name of “sarcopenic obesity” for people with both sarcopenia and obesity. Previous studies showed that, the best method for improving sarcopenic obesity is exercise and nutrition. However, there has not been any study investigating elderly residents in LTC facilities with higher complication.

Purpose: To understand the change in body composition and physical functions of elderly residents with sarcopenic obesity after the implementation of exercise intervention.

Methodology & Theoretical Orientation: This quantitative, interventional study implements exercise intervention in elderly residents. The intervention will be implemented for 3 months. The obesity index and bioelectrical impedance analyzer (BIA) will be used in the pretest to screen the elderly residents with sarcopenic obesity. Afterwards, the elderly residents with sarcopenic obesity are randomized to the experimental group and control group. The study will analyze the variables including body composition index (lean mass, fat percentage and skin fold thickness analysis), the blood analysis (albumin, lipoproteins and cholesterol), body strength and muscular endurance function measurements (grip strength and the arms lift) and a comprehensive daily living activity functions (daily living activities and quality of life).

Findings: Subjects' attributions and correlation of the body composition index, composed of the body of blood, the performance of muscle strength and muscle endurance and comprehensive daily living functions among the group of sarcopenic obesity were significant.

Conclusion & Significance: The experimental group after the implementation of interventions three months in measurement of body composition and physical function performance of sarcopenic obesity were improved. The results could be used to improve the reference plan of intervention in order to improve physical function and quality of life of the elderly people in facilities.

Biography

Shu-Fang Chang is a Professor, School of Nursing at the National Taipei University of Nursing and Health Sciences, Taiwan. -

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