Aging population, bibliographic review

Introduction

Population aging is the increase in the number of older adults with respect to the population group they belong to, and this population group has gradually increased. The social challenge that represents, is due to the needs generated from the economic, biomedically and social point of view. Cuba is at an advanced stage of aging, which is why policies and methods have been established with social medical projections that allow these people to feel more useful to family and society.1 The appropriate physical and mental exercise is a pillar to achieve an old age with adequate health because it positively compensates muscle mass, promotes respiratory dynamics, temperature, blood volume and improves peripheral resistance and the ability to respond to stress. Therefore, in order to raise the level of knowledge and sensitize health personnel about the importance of physical exercise in the health status of the elderly, the motivation to carry out this literature review arises.2

Developing

It is known that physical exercise provides the body a physiological activity in all tissues that slow the consequences of aging: Currently, physical activity and physical exercise are considered the best investment or the best business for achieving health published on a global scale.3 The movement in the life of the older adult is vital, the loss of walking capacity and balance indicate high risk to your health that is measured in terms of functional capacity and is evaluated by means of scales. Equilibrium disorders affect more than 50% of the elderly is the most frequent complaint in people over 75 years with an estimated prevalence of 26.9%. The frequency of mobility disorders increases with age, this situation causes progressive dependence and can finally cause partial or total immobility.4 For a successful aging it is vital the preservation of the march, because the Disorders in this sense limit activity, increase morbidity and dependence, a factor that contributes to the institutionalization and entry into nursing homes. Changes in gait and balance can be a predictor of future falls.4-6 The falls in the elderly are events of great interest in Geriatrics because of its high prevalence, constitute an important risk for fractures and are associated with a increase in mortality. They have as a complication the functional and psychological limitation resulting from the fear of falling. The health costs they generate are cause for concern, since the increase in life expectancy means that more people can suffer falls with disabling consequences.7-8 According to Cuban statistics, the main causes of death are the accidents, which occupy the fifth cause among people over 60 and Within the mortality by accidents, in this same age group, falls occupy the first place, which is why for our country it is so important to draw up strategies for its prevention.9

Gait and balance assessment is the most useful tool to identify patients with risk of falls. For this purpose there is clinical evaluation carried out through careful observation of a series of maneuvers, the application of scales and computerized instruments are also included.10 Rehabilitation, like any intervention, requires an instrument of application of scales and computerized instruments are also included. The dynamometric platforms are systems of kinetic analysis of movement, allow to measure the forces that the foot exerts on the plane of support during the March, the race or the jump. The COBS can be used as a tool diagnostic and therapeutic or biomechanical gait studies. It allows to value different parameters of the walk objectively and effectively, appreciate the factors that can modify it and assess the effectiveness of the treatment. It is a repeatable, quantifiable, objective and reliable method.11-14 The CobsBiofeedback Platform (PCB) is an information response team and training that provides simple information, represented in graphic form, acoustic or both, in real time, on the movements of the body so fast and objective, showing the exact response of a person’s motor skills, allowing effective planning and control of the therapy; It also allows qualitative and quantitative evaluation of motor skills: balance, load capacity, strength, coordination, speed; In addition, other abilities that influence motor skills can be proven, such as: body perception, proprioception, cognition, attention, reaction, anticipation, visual and acoustic perception. In this way you can offer a customized program for people of the elderly in order to prevent falls.15-16 Cuba is at an advanced stage of the demographic transition, with a low fertility rate and declining mortality. It is considered one of the oldest (18.3%) in the Americas; by 2020 around 400,000 Cubans will have reached the age of 80.17,18 It is not estimated that by 2025 Cuba will be the oldest country in Latin America and by 2050, one of the oldest in the world.3 Roig Hechavarría concluded in his study that older adults who attended the homes of grandparents of the Holguín municipality, mostly did not show cognitive impairment, nor did they show psycho-affective alteration. It must be remembered that in these institutions physical exercise is a fundamental pillar. The author refers that reconoce, evaluates and treats balance problems that occur in older adults and develop care strategies, is a priority of health in the territory.

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None.

Conflicts of interest

The author declares there is no conflict of interest.
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