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Short Communication



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Aquatic Balance Training on Improving the Physical Condition and the Fall Risk Among Elderly

Eduardo Martínez-Carbonell Guillamón

Health Science BSp&ExSc MSc MSPT, Spain

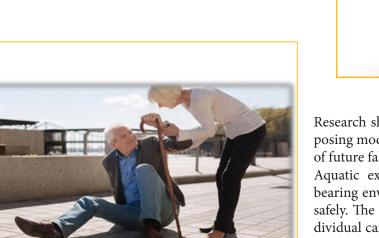
Corresponding author: Eduardo Martínez-Carbonell Guillamón, Health Science BSp&ExSc MSc MSPT, Spain. E-mail: eduardomartinezcarbonell@gmail.com

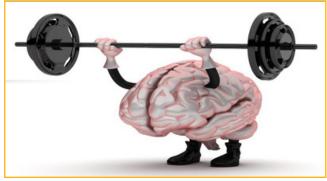
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Keywords: Aqutic, Training, Physcial Condition, Fall Risk

Introduction

Approximately 30% of people aged over 65 years will fall at least once a year and 15% at least twice a year and this risk increases with age (Tinetti, 2003).





Research shows that detection and improvement of predisposing modifiable risk factors as balance can reduce the rate of future falls (Shrerrington et al., 2011)

Aquatic exercise provides a low-impact and low-weight bearing environment here individuals can exercise balance safely. The risk of falling is eliminated, and therefore an individual can concentrate on making physical improvements following the professional instructions

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Research objective

Assess the use of the aquatic environment to improve the balance condition of older adults. Identify the best aquatic balance exercises to reduce the fall risk in older adults

Methods

Aquatic Excer- cise	Water Based	Hydrotherapy
Physical Exer- cise	Physical Func- tion	Exercise
Elderly	Older Adults	Aging

 Tabe 1: Databases and search terms.

Functional Independence	
i unetional independence	
No pathologies	
People between 60-80 years old	
Studies that introduce balance exercises in theirs programs	

International databases in the research field

Table 2: Inclusion criteriaResults



Figure 1: Horizontal jump with one leg. Mobilization of lower limbs.



Figure 2: Unipodal balance. Mobilization of lower limbs.



Figure 3: Reduction of the support base.



Figure 4: Gravity center movements without the help of upper limbs.

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Figure 5: Vertical jump with both legs.



Figure 6: Vertical jump with two legs and visual field reduction.



Figure 7: Center of Gravity Movements With the Help of Upper Limbs.

Sources: Martínez-Carbonell Guillamón, 2019; Sanders, Takeshima, Rogers, Colado y Borreani, 2013; Kim y O'Sullivan, 2013; Elbar et al., 2013; Javaheri, Rahimi, Rashidlamir y Alikhajeh, 2012; Alikhajeh, Moghaddam & Moghaddam, 2012 Conclusions

Aquatic environment is presented as beneficial in order to improve balance in the elderly being able to contribute positively the fall prevention.



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