8th International Conference on

Geriatrics Gerontology & Palliative Nursing

July 30-31, 2018 | Barcelona, Spain

'HYHORSPHQW RI DQ DSSOLFDWLRQ IRU PRELOH GHYLFHV WF elderly

/XLVD 9HUtVVLPR 3HUHLUD 6DPSDLR Catholic University of Brasília, Brazil

Abstract: Aging is de ned as a natural and physiological process that progressively accompanies the life cycle. As well as psychosocial complications, physical losses also occur, resulting in slow reasoning, depression, functional disability, loss of strength, inactivity and physical degeneration. e application of the functional tests is intended to aid clinical evaluation by providing data on the patient's mobility capacity and revealing possible balance de cits. e use of smartphones in health is growing as it provides professionals with more agility and exibility in their work, from the time of data collection to the use of applications that assist with patient evaluation. e sensors embedded in these devices are increasingly being used in the evaluation of balance and gait. One of these sensors is the accelerometer, which has the potential to aid clinical procedure o ering quantitative data for assessment and balance and gait training.

Objective: to develop an application for mobile devices to evaluate the balance and risk of falls of the elderly.

Method: A cross-sectional study with a sample composed of 54 elderly individuals with an average age of 71 years submitte to three balance and risk of falls evaluation tests, was performed. e Timed Up and Go (TUG) and Performance Oriented Mobility Assessment (POMA) tests were employed.

Results: e results were closely correlated, identifying three groups of volunteers: low, medium and high risk of falls. When