ABSTRACT



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The Relationship Betwen Body Mass Index and Gait Speed in Elderly Knee Osteoarthritis

Consists of VI Chapters, 58 Pages, 8 Tables, 6 Images, 4 Attachments

Objective: Want to find out the pace of the elderly with OA genu conditions and See the relationship between body mass index to step speed in the elderly. Method: This type of research is crossectional, the sample was selected based on purposive sampling technique. Based on the sample distribution the age of the mean and standard deviation was 56.58 ± 6.57 , in the sample height the mean \pm SD was 1.57 \pm 7.13, judging by the weight distribution the mean \pm SD 54.58 \pm 10.12, seen from the body mass index distribution, the mean \pm SD 2.25 \pm 1.15, judging by the distribution of osteoarthritis velocity with TUG mean \pm SD 14.83 \pm 7.45, and based on the distribution of TUG samples it has a mean \pm SD 14, 83 \pm 7.45. **Results**: The normality test with Shapiro Wilk test showed normal distribution data while the Spearman rank test statistic test, the significant value of count (2-tailed) was 0.956, where p < 0.05. The results of this statistical test show that there is a relationship between body mass index and step speed in elderly people with very strong osteoarthritis genu conditions. For the results of the correlation between BMI and TUG there is a significant value between the two variables p = 0.05. Conclusion: There is a relationship between body mass index at step speed in the elderly with Osteoarthritis

Keywords: Body Mass Index, Osteoarthritis, Time Up and Go test.

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