

The 3rd International Electronic Conference on Environmental Research and Public Health: Public Health Issues in the Context of COVID-19 Pandemic 11-25 JANUARY 2021 | ONLINE





F. Exercise and Health

Maximal and explosive strength during COVID19: Impact on lower and

upper limbs in Sport students

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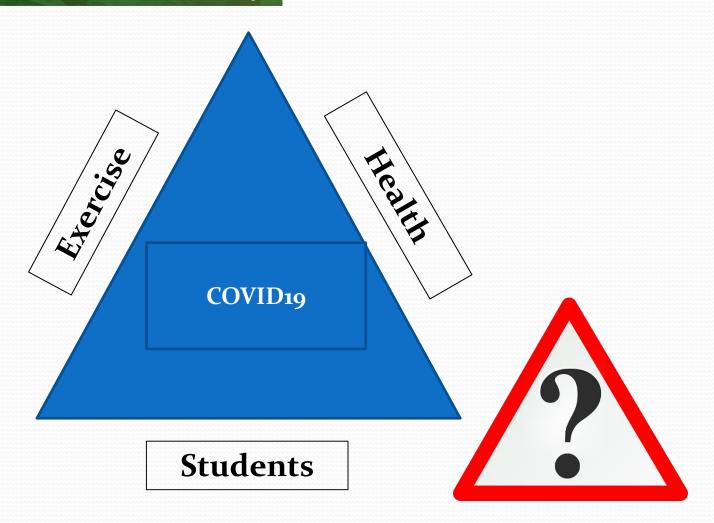
Polytechnic Institute of Setubal Department of Science and Technology



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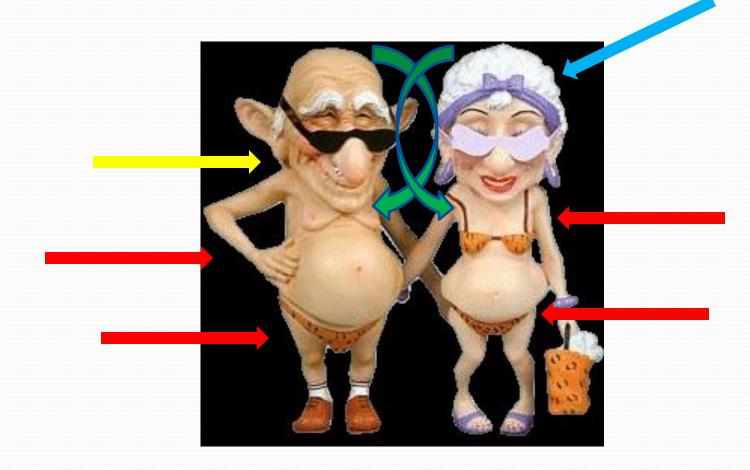
Introduction | Aim | Metodology | Results | Conclusions



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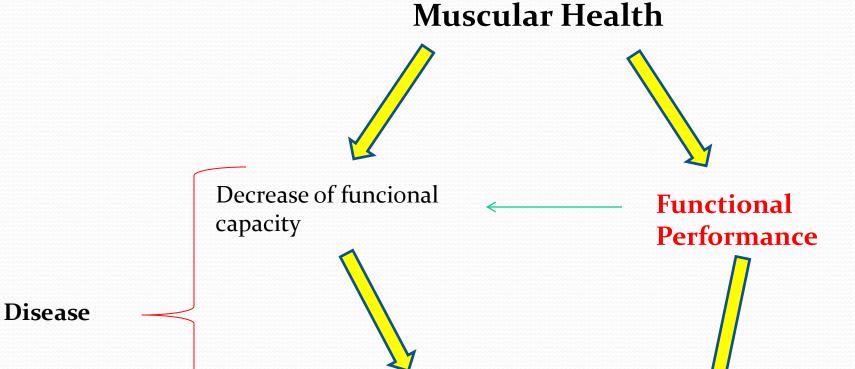












Decrease of

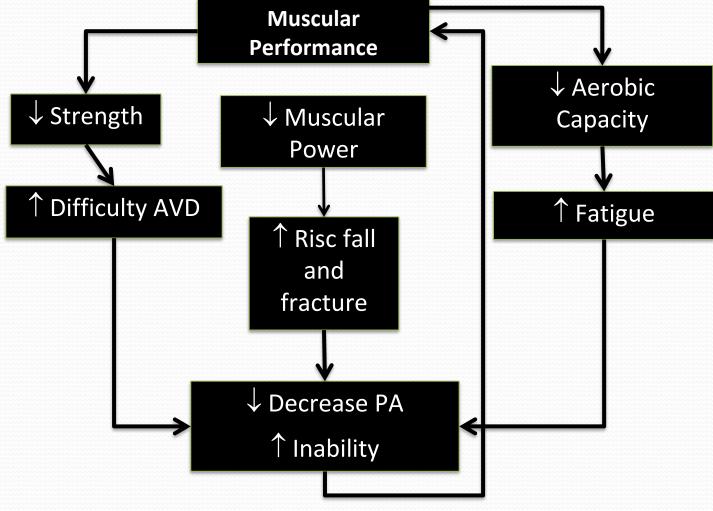
<u>immunity</u>

<

Malnutrition
PSYCHOSOCIAL DEPENDENCE







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Objetive:

1. Considering the widely established consequences of excessive screen time during COVID19 the present study aim to analyse the relation between maximal and power strength

2. Understand that physical exercises could be a mediating factor for effect on and overall perception of well-being.



1. Objetive

~ Analyze the relation between maximal and power strength

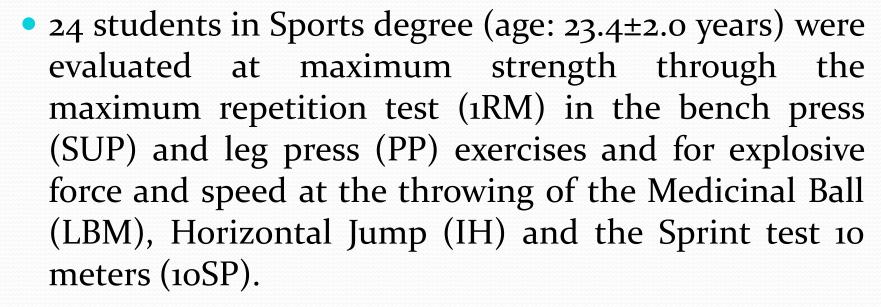
Web of Science, MEDLINE, CINAHL, and Cochrane Central Register of Controlled Trials were searched based on a priori criteria of all studies evaluating the effect of an exercise program on maximal and power measures in young people

Keywords

Maximum strength, speed, upper limbs, lower limbs, COVID19







 Pearson's correlation (p<0.05) was used for the association between the variables.







- The results obtained were: 1RMSUP: 62.8±26.3 kg; 1RMPP: 239±90.1 kg; 10SP: 2.1±0.14 seconds; IH: 1.8±0.22 meters; and, LBM: 4.5±0.84 meters. A strong correlation was observed between strength and velocity in the lower limbs (10SP, IH and 1RMPP: between r=0.61 and r=0.84). Maximum strength of the lower limbs is fundamental for the performance in the 10SP and IH tests.
- The relationship between exercise and health should also aim at the greater contribution of muscle symmetry in relation to maximum and predominant performance. Ensuring a positive association in the prescription of regular physical exercise particularly in difficult phases such as the pandemic COVID19. The fact that the students attended classes mostly online seems to have contributed to a weakness in the strength of the lower limbs, and may also be associated with a reduction in flexibility and body posture.

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11-01-2021





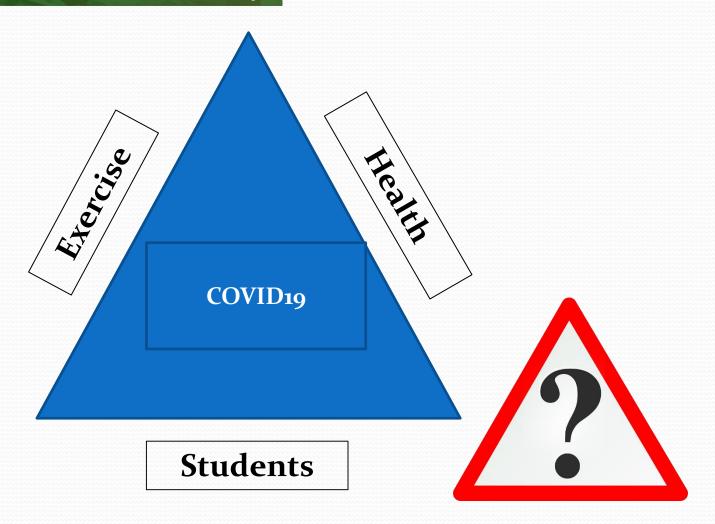
• The existing scientific evidence for the negative impact of excessive screen time on mental and physical health while providing new insights of physical exercise, specially strength training, during pandemic situation.



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