Aerobic capacity of chilean adults and elderly: Proposal of classification by regional percentiles [Capacidade aeróbia de adultos e idosos chilenos: Proposta de classificação por percentis regionais] [Capacidad aeróbica de adultos y ancianos chilenos: Propuesta de clasificación por percentiles regionales]

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Introduction: Aerobic fitness is an important predictor that contributes to the preservation of functional independence during the aging process. Its measurement represents a fundamental tool in the identification of multiple health problems. Objective: To compare the aerobic capacity of adults and elderly subjects through international studies and to develop percentiles by age group using the LMS method. Methods: A cross-sectional descriptive study was conducted with 1146 subjects (437 men and 709 women). The age group of the sample ranged from 50 to 84 years. The subjects evaluated came from the physical activity programs offered by the National Sports Institute (IND) and by the city council of Talca (Chile). Body mass, stature, oxygen saturation (SatO2), six-minute walk test, and systolic and diastolic blood pressure were assessed. Body Mass Index (BMI) was calculated for both sexes. The LMS method was used to propose the percent distribution. Results: Aerobic capacity decreases with age (28.5% for men and 29.9% for women). There was a negative relationship between age and the six-minute walk test (men r =-0.13 and women r =-0.39). There

was a discrepancy between the elderly subjects in the current study and those from international studies. The normative data for the classification of aerobic fitness were expressed in percentiles (p3, p5, p10, p15, p25, p50, p75, p85, p90, p95 and p97). Conclusion: The aerobic performance of itional ryday onsidered a stigation of

elderly subjects diminishes as they age; in addition, the current results differ from interna
studies, which motivated the development of percentiles to classify aerobic fitness in eve
situations, especially in places with few resources and particularly where field tests are co
priority for large-scale physical evaluation. Level of evidence II; Diagnostic studies? inve
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Aged
Exercise
Exercise test
Walk test
adult
aerobic capacity
age
aged
article
body height
body mass
Chile
Chilean
controlled study
diastolic blood pressure
exercise test
female

human

human experiment
major clinical study
male
oxygen saturation
physical activity
physical examination
six minute walk test
sport