

JOINT EVENT

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Childhood overweight and obesity are a worldwide problem. Childhood overweight and obesity has major consequences in all stages of life; it is associated with co-morbidities such as glucose intolerance, diabetes, metabolic syndrome and other cardiovascular risks factors at young adulthood. Alongside a range of health problems associated with increased body mass (BM): Overweight or obesity is an important limiting factor for realization of PE and qualitative life style.

In study, we assess the effect of exercise in children differing in BM. Study was carried out in 98 children with normal BM (age=12.4±2.2 years; BM=48.0±3.6 kg; height=157.0±4.8 cm), 68 overweight (12.1±2.0; 61.6±3.0; 157.7±4.5) and 59 obese (12.7±2.6; 71.2±3.8; 155.1±4.2). The mean energy content of exercise/week in normal BM children was 1920±310 kcal, in overweight 1990±230 kcal, and in obese 2260±290 kcal. The exercise was based on walking (82.0±3.1%) of all movement activities.

Relative changes after the imposed movement intervention in % BF ranged from 15.4 in obese to 16.6% in normal BM and in VO2 peak from 13.9 in normal BM to 15.7% in obese. Children shows absolute changes in somatic and functional parameters like a result of imposed exercise based on walking substantively and statistically significant. On the contrary, differences in relative terms are insignificant.

We may conclude that similar exercise program may invoke the similar BC and functional performance changes in pre-pubertal children differing in BM.

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