ABSTRACT

The diploma thesis is mainly focused on monitoring Rohrer’s index (RI) at preschool children in age of 3, 4, 5, and 6. The work is solving the question of mutual relation between Rohrer’s index, sickness rate, and spontaneous activity of preschool children. Furthermore, Body Mass Index (BMI) is listed as another anthropometric index. In fact, BMI shouldn’t be used for this age group but it’s mentioned for its general knowledge.

The anthropometric research includes the measurement of preschool’s children body height and weight. 240 children were measured in total. Each age group contains 60 kids from which are always 30 boys and 30 girls. In addition, there is evaluated children’s half year of preschool attendance, sickness, and spontaneous physical activity.

The research is dealing with the question if body weight or height can influence children’s sickness rate. Moreover, there is solved the association between kids’ anthropometric indexes and physical activity. The data were processed through Student’s t-test and the independence test $\chi^2$.

As it is stated by professionals, the research has proven that Rohrer’s index is decreasing in relation to age. The next result shows that children with lower anthropometric indexes are usually more spontaneously active. Kids with higher indexes are more prone to sickness.

KEYWORDS

pre-school children, obesity, Rohrer’s index, BMI, health, anthropometry