

## **Abstract**

This diploma thesis is based on the fourth round of the Childhood Obesity Surveillance Initiative. From 1718 children aged 6.5 - 7.99 were collected anthropometric data and characteristics of family and school environment. Prevalence of overweight and obesity, risk distributions of adipose tissue and evaluation of factors affecting abdominal obesity was evaluated.

Increase of overweight and obesity was found for boys, increase of overweight and loose of obesity was found for girls. Elevated waist circumference and WHtR were evaluated in both sexes. Year-on-year changes are not statistically significant, overall the stagnating trend of child overweight and obesity has been evaluated. High WHtR was also shown by individuals in normal weight category.

Of the rated family characteristics, family anamnesis of obesity, weight of parents, time spent with TV / computers, and mother's education is primarily involved in the risky distribution of fatty tissue.

## **Keywords**

overweight, obesity, prevalence, nutrition, physical activity, WHtR, waist circumference