

## **Abstrakt and key words**

**The definition of problematicity:** According to the date of birth, the whole population expresses their age numerically, sometimes known as the calendar or chronological year. Nevertheless, from the biological point of view, this statement can be misrepresented in the meaning. The real and precise age, here we mean the biological age, can be different.

**The Aim:** The aim of my bachelor thesis is to consider and evaluate the populational biological age of children doing karate, ranging from 10–15 years. We want to find out whether the biological age has any impact on karate competitions' results.

**The methods:** There is a group of individuals, including boys and girls, who accomplish the criteria for the evaluation. One of them is the approximate achievement of the same technical level of the karateist and the minimal two years competition's attendance. According to Brauer, the biological determination of the year will not only be carried out by the proportional method (in Riegerová, Přidalová, Ulbrichová, 2006; Riegerová, Sedlak, 1996; Riegerová, 1984) but also by the help of orientational growing age of children. Next, we compare the calendar and biological age and evaluate them. All results gained from the survey, will be compared with the anthropological research of Czech population, due to the index of normalization. We set the scale point where we assign the named competitors' points from his or her individual competition. The overall competitors' ranking that we get after two years of competing, will serve as the analyzed data we put into the connection with estimated biological age.

**Key words:** the biological age, the proporcional age, KEI index, karate, competition