

## **Abstract**

The aim of the thesis was to map the current state of the occurrence and the subsequent use of national reference data and on the basis of the data created growth charts with focusing mainly on European countries. Growth charts are an indispensable part of pediatric practice because of ease of use when assessing a child's development. Due to the secular trend, however, it is necessary to periodically update these graphs that they best resemble the growth of children population and to avoid false positives, eg. at pubertal spurt. The results of our analysis show that there are currently in use of growth references three basic trends: 1) is used only growth standards of the World Health Organization (WHO), for example: Serbia, Switzerland, Ukraine, 2) a combination of the standards of WHO and national reference for example: United Kingdom of Great Britain and Northern Ireland, Poland, and 3) use of only national references and concretely in the Czech Republic and mainly in states of northwestern Europe, eg. the Federal Republic of Germany and Finland.