

Smoking of children definitely is a huge social problem, which many governments around the world try to solve. Some of them are successful, other less. This paper focuses on the USA with the very good situation and, on the other hand, on the Czech Republic, where the situation is not so satisfactory. There are many factors that influence if a child smokes or not. And the main aim of this paper is to find the important factors in the both countries. Other aim is to compare significance of the factors' influence in the USA with the ones in the Czech Republic.

Statistical description of datasets from NYTS survey in the USA in 2009 and from GYTS surveys in the Czech Republic in 2002 and 2007 show that there are less than 10% of child smokers in the age of 14 in the USA and the situation in the Czech Republic is getting better, although the amount of children who smoke is still three times higher. The influences of the factors are estimated by LPM methods, probit and logit models. American children are more affected by school class explaining danger and by other people who smoke in their presence, while the Czech children are mostly influenced by smokers among their closest friends and their parents.