

Life expectancy and its determining elements: A study for the Czech Republic at the beginning of the 21th century.

In our thesis we are modelling a life expectancy function for the Czech Republic at the beginning of the 21th century. Our model is using three types of explanatory variables - environmental (socio-economic), health care and environmental pollution.

Our study is the first study not only for the Czech Republic but it is a first study to include environmental pollution variables into a complex life expectancy model.

As a result, we found two different life expectancy functions where one is applicable for male to the age of 45 and 65 and female at the age of 45 and the second which is the best model for female to the age of 65.

General outcome points out three things – only one health care factor is significant at a time, environmental pollution is category that has to be considered and the percentage of people over the age of 65 is significant variable determining the life expectancy the most.