

Determinants of circulatory system diseases among the Czech population

Abstract

The determinants of circulatory system diseases are very well known, modifiable risk factors and factors widely spread among populations are in focus for the public health research. The aim of this thesis is a quantification of main cardiovascular risk factors in the Czech population using the survival analysis and HAPIEE cohort data. The epidemiologic situation, trends in the Czech population health including “the cardiovascular revolution” is discussed in the first part of the thesis. Among the Czech population high prevalence of many risk factors were found. The education had the strongest impact on cardiovascular health from sociodemographic characteristics. The negative effect of smoking, prevalence of high blood pressure, prevalence of diabetes and physical inactivity was confirmed. On the other hand the impact of obesity, binge drinking and high blood cholesterol level was not significant among the Czech population. The population approach in cardiovascular epidemiology and cardiovascular health promotion as well are discussed in the last chapter.

Keywords: diseases of the circulatory system, mortality, health transition, cardiovascular health, risk factors, survival analysis, health promotion