

Abstract

This bachelor thesis deals with spatial accessibility of outpatient health care in Czechia using network analysis in GIS. Two health insurance companies are involved in the analysis: Všeobecná zdravotní pojišťovna and Revírní bratrská pokladna. As examples, four different health services were chosen (urology, hemodialysis, nephrology and cardiac surgery). Then, time accessibility was calculated and service areas for health care facilities were generated in ArcGIS. Traveling by car was used as a traffic mode. Time accessibility was compared with the limits established by law. For resultant underserved areas, their shares of total area and population of Czechia were computed. The results are presented by tables and maps, which are in the appendix of this work. The substantial differences among accessibility of health care providers and between both health insurance companies were found out.