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Title: The spatial mortality distribution of urban population in the Czech Republic, 2001-2011.

Abstract:

Population mortality and morbidity state, its spatial, structural and temporal distribution are important concerns related to population- as well as public health policy and health care. Research outcomes in this topic are starting point to address problems arising from health inequalities in its structural and spatial context. The population of the Czech Republic as well as other European countries have been strongly affected by processes of urbanization since several decades.

The aim of the paper is to evaluate the spatial mortality distribution of selected Czech city/town populations within the intercensal period of 2001-2011. The paper is part of the author's Charles University Grant Foundation postgradual project outputs. The project builds on the concept of the UCL INEQ-CITIES study, applying new advanced statistical methods based on the principles of *generalized mixed modeling*, taking into account inner variance heterogeneity, spatial structure as well as interdependence (autocorrelation) of analyzed spatial units (in literature often called by the term "Bayesian" - *Bayesian mapping methods*).