Introduction

The persistence of lead poisoning as a public health problem in the United States demonstrated the prevalence of lead hazards in the environment and the high risks that are associated with lead exposure and its vital health problems in the most vulnerable population, children. Children’s lead poisoning problem varies among the population whose communities have experienced this health problem unevenly. The findings highlight the wide gap of disproportionate lead poisoning across and within the U.S. states. Environmental health inequalities of uneven distribution of toxic hazards are mostly clustered within communities that tend to be located in concentrated minorities and low-income neighborhoods. Together, the socio-economic, socio-spatial and socio-racial predictors are constitutive factors of the disproportionate geographic distribution of lead, indicating the production and reproduction processes of environmental injustice.

Materials and Methods

Map of West Virginia, focusing on 3 counties. McDowell County is the poorest in the state (II = 0.46), has the highest percentage of minority population and an elevated level of the percentage of BLL.

Map of Rhode Island showing ALL counties. Providence is the poorest county in the state (II = 0.92), has the highest percentage of BLL and has the highest percentage of minority population.

Results

Map of West Virginia, focusing on 3 counties. McDowell County is the poorest in the state (II = 0.46), has the highest percentage of minority population and an elevated level of the percentage of BLL.

Map of Rhode Island showing ALL counties. Providence is the poorest county in the state (II = 0.92), has the highest percentage of BLL and has the highest percentage of minority population.