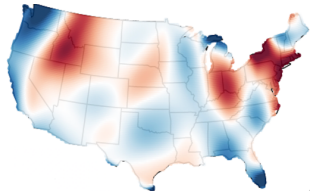
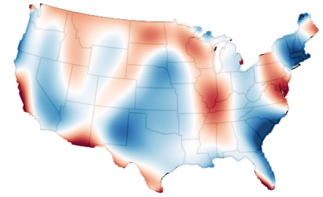
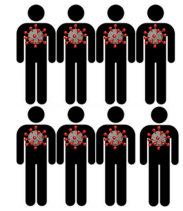
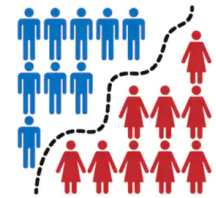






$$\log(\mu_{it}^{D}) = \beta_t^{D}(\mathrm{Lat}_i, \mathrm{Lon}_i) + \alpha_{1t}^{D}(\mathrm{Lat}_i, \mathrm{Lon}_i) \times \log(\mathrm{I}_{i,t-14}) + \theta_{1t}^{D}\,\mathrm{Mobility}_{i,t-7}$$

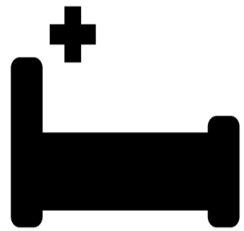



$$+ \theta_{2t}^{D}\,\mathrm{Control}_{i,t-7} + f_{1t}^{D}(\mathrm{Disadvantage}_i) + f_{2t}^{D}(\mathrm{Affluence}_i) + f_{3t}^{D}(\mathrm{Urban}_i)$$






$$+ f_{4t}^{D}(\mathrm{Gini}_i) + f_{5t}^{D}(\mathrm{AA}_i) + f_{6t}^{D}(\mathrm{HL}_i) + f_{7t}^{D}(\mathrm{MF}_i) + f_{8t}^{D}(\mathrm{Old}_i)$$

$$+ f_{9t}^{D}(\mathrm{PD}_i) + f_{10,t}^{D}(\mathrm{Tbed}_i) + f_{11,t}^{D}(\mathrm{EHPC}_i) + f_{12,t}^{D}(\mathrm{NHIC}_i)$$