| Sex | Period | Model | Variable | Increasing disadvantage | Decreasing disadvantage | Decreasing advantage | Increasing advantage |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Male | 1997-2016 | Model containing average variables | Average age | 1 (Ref.) | 0.54 (0.27, 1.11) | 0.76 (0.43, 1.35) | 0.48\* (0.25, 0.93) |
| Average hospital density | 1 (Ref.) | 0.76 (0.42, 1.4) | 1.35 (0.84, 2.15) | 0.85 (0.52, 1.41) |
| Average tax base | 1 (Ref.) | 1.37 (0.5, 3.71) | 3.8\* (1.69, 8.55) | 3.97\* (1.66, 9.49) |
| Average unemployment | 1 (Ref.) | 0.78 (0.32, 1.89) | 0.26\* (0.13, 0.52) | 0.19\* (0.08, 0.42) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.34\* (0.15, 0.76) | 0.6 (0.32, 1.14) | 0.33\* (0.15, 0.69) |
| Average hospital density | 1 (Ref.) | 1.1 (0.56, 2.17) | 1.46 (0.87, 2.48) | 1.29 (0.72, 2.29) |
| Average tax base | 1 (Ref.) | 7.5\* (1.79, 31.41) | 8.51\* (2.63, 27.5) | 18.67\* (5.13, 67.9) |
| Average unemployment | 1 (Ref.) | 1.99 (0.69, 5.73) | 0.37\* (0.17, 0.81) | 0.41 (0.17, 1.01) |
| Change in average age | 1 (Ref.) | 6.87\* (2.51, 18.83) | 2.15 (0.98, 4.72) | 6.04\* (2.42, 15.1) |
| Change in hospital density | 1 (Ref.) | 1.37 (0.75, 2.51) | 1.07 (0.7, 1.64) | 1.02 (0.64, 1.63) |
| Change in tax base | 1 (Ref.) | 0.97 (0.45, 2.09) | 0.76 (0.34, 1.7) | 0.84 (0.34, 2.07) |
| Change in unemployment | 1 (Ref.) | 0.72 (0.36, 1.46) | 1.14 (0.65, 2.01) | 0.63 (0.33, 1.2) |
| 1997-2006 | Model containing average variables | Average age | 1 (Ref.) | 0.62 (0.3, 1.3) | 0.64 (0.39, 1.04) | 0.44\* (0.23, 0.86) |
| Average hospital density | 1 (Ref.) | 0.73 (0.36, 1.46) | 1.14 (0.75, 1.73) | 1.04 (0.62, 1.76) |
| Average tax base | 1 (Ref.) | 1.23 (0.35, 4.3) | 4.25\* (1.86, 9.73) | 4.33\* (1.58, 11.86) |
| Average unemployment | 1 (Ref.) | 2.04 (0.75, 5.52) | 0.43\* (0.24, 0.76) | 0.58 (0.28, 1.23) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.54 (0.24, 1.19) | 0.64 (0.38, 1.07) | 0.39\* (0.19, 0.79) |
| Average hospital density | 1 (Ref.) | 0.75 (0.36, 1.6) | 1.29 (0.82, 2.05) | 1.24 (0.71, 2.19) |
| Average tax base | 1 (Ref.) | 1.9 (0.37, 9.68) | 7.56\* (2.41, 23.67) | 14.26\* (3.12, 65.2) |
| Average unemployment | 1 (Ref.) | 2.64 (0.93, 7.48) | 0.45\* (0.25, 0.81) | 0.61 (0.28, 1.33) |
| Change in average age | 1 (Ref.) | 2.24 (0.59, 8.47) | 1.88 (0.8, 4.41) | 2.22 (0.73, 6.75) |
| Change in hospital density | 1 (Ref.) | 0.98 (0.49, 1.98) | 1.07 (0.72, 1.59) | 1.24 (0.75, 2.05) |
| Change in tax base | 1 (Ref.) | 1.02 (0.54, 1.93) | 0.91 (0.55, 1.49) | 0.48 (0.22, 1.03) |
| Change in unemployment | 1 (Ref.) | 1.51 (0.77, 2.96) | 0.9 (0.59, 1.37) | 1 (0.55, 1.79) |
| 2007-2016 | Model containing average variables | Average age | 1 (Ref.) | 1.03 (0.65, 1.64) | 1.21 (0.65, 2.24) | 0.59 (0.33, 1.07) |
| Average hospital density | 1 (Ref.) | 0.85 (0.58, 1.26) | 1.38 (0.89, 2.15) | 0.89 (0.58, 1.37) |
| Average tax base | 1 (Ref.) | 1.21 (0.64, 2.29) | 4.04\* (1.98, 8.27) | 4.08\* (1.98, 8.42) |
| Average unemployment | 1 (Ref.) | 0.43\* (0.26, 0.72) | 0.44\* (0.23, 0.85) | 0.14\* (0.07, 0.28) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.69 (0.4, 1.18) | 1.11 (0.55, 2.27) | 0.34\* (0.17, 0.68) |
| Average hospital density | 1 (Ref.) | 0.91 (0.6, 1.37) | 1.32 (0.83, 2.09) | 1.03 (0.65, 1.63) |
| Average tax base | 1 (Ref.) | 2.01 (0.95, 4.27) | 6.18\* (2.52, 15.17) | 11.29\* (4.46, 28.56) |
| Average unemployment | 1 (Ref.) | 0.68 (0.38, 1.22) | 0.49 (0.23, 1.07) | 0.24\* (0.11, 0.51) |
| Change in average age | 1 (Ref.) | 2.28\* (1.37, 3.8) | 1.31 (0.7, 2.44) | 3.41\* (1.78, 6.55) |
| Change in hospital density | 1 (Ref.) | 1 (0.69, 1.46) | 1.54 (0.94, 2.5) | 1.48 (0.93, 2.36) |
| Change in tax base | 1 (Ref.) | 0.92 (0.6, 1.41) | 1.68 (0.87, 3.23) | 1.58 (0.79, 3.14) |
| Change in unemployment | 1 (Ref.) | 1.17 (0.81, 1.69) | 1.09 (0.69, 1.72) | 1.07 (0.66, 1.74) |
| Female | 1997-2016 | Model containing average variables | Average age | 1 (Ref.) | 0.44\* (0.23, 0.86) | 0.75 (0.44, 1.28) | 0.48\* (0.24, 0.93) |
| Average hospital density | 1 (Ref.) | 0.89 (0.52, 1.54) | 1.5 (0.97, 2.32) | 0.76 (0.45, 1.28) |
| Average tax base | 1 (Ref.) | 3.21\* (1.2, 8.56) | 9.05\* (3.79, 21.6) | 8.74\* (3.36, 22.74) |
| Average unemployment | 1 (Ref.) | 1 (0.45, 2.18) | 0.3\* (0.16, 0.56) | 0.22\* (0.1, 0.5) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.34\* (0.17, 0.71) | 0.69 (0.38, 1.23) | 0.39\* (0.19, 0.82) |
| Average hospital density | 1 (Ref.) | 1.19 (0.67, 2.14) | 1.64\* (1.02, 2.65) | 1.06 (0.6, 1.86) |
| Average tax base | 1 (Ref.) | 9.44\* (2.6, 34.32) | 12.82\* (4.15, 39.57) | 21.48\* (5.98, 77.16) |
| Average unemployment | 1 (Ref.) | 1.65 (0.65, 4.19) | 0.33\* (0.16, 0.66) | 0.32\* (0.13, 0.77) |
| Change in average age | 1 (Ref.) | 3.53\* (1.46, 8.56) | 1.45 (0.69, 3.03) | 3.08\* (1.25, 7.61) |
| Change in hospital density | 1 (Ref.) | 1.08 (0.66, 1.78) | 0.88 (0.59, 1.31) | 0.97 (0.61, 1.55) |
| Change in tax base | 1 (Ref.) | 0.76 (0.39, 1.46) | 0.77 (0.35, 1.68) | 0.75 (0.31, 1.85) |
| Change in unemployment | 1 (Ref.) | 0.6 (0.33, 1.1) | 0.74 (0.45, 1.23) | 0.58 (0.31, 1.06) |
| 1997-2006 | Model containing average variables | Average age | 1 (Ref.) | 0.85 (0.48, 1.53) | 0.7 (0.44, 1.12) | 0.69 (0.36, 1.3) |
| Average hospital density | 1 (Ref.) | 1.15 (0.67, 1.97) | 1.5 (0.98, 2.29) | 0.96 (0.57, 1.63) |
| Average tax base | 1 (Ref.) | 0.92 (0.32, 2.61) | 6.62\* (2.88, 15.2) | 2.49 (0.89, 6.96) |
| Average unemployment | 1 (Ref.) | 0.99 (0.5, 1.97) | 0.39\* (0.22, 0.67) | 0.57 (0.28, 1.17) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.78 (0.41, 1.47) | 0.74 (0.45, 1.21) | 0.65 (0.33, 1.29) |
| Average hospital density | 1 (Ref.) | 1.36 (0.76, 2.45) | 1.71\* (1.06, 2.74) | 1.32 (0.74, 2.34) |
| Average tax base | 1 (Ref.) | 2.21 (0.57, 8.52) | 9.03\* (3.05, 26.76) | 9.89\* (2.35, 41.75) |
| Average unemployment | 1 (Ref.) | 1.21 (0.58, 2.52) | 0.41\* (0.23, 0.72) | 0.59 (0.27, 1.26) |
| Change in average age | 1 (Ref.) | 3.49\* (1.16, 10.5) | 1.59 (0.7, 3.58) | 3.57\* (1.2, 10.59) |
| Change in hospital density | 1 (Ref.) | 1.68 (0.95, 2.98) | 1.12 (0.74, 1.7) | 1.26 (0.75, 2.11) |
| Change in tax base | 1 (Ref.) | 0.78 (0.42, 1.45) | 1.07 (0.64, 1.78) | 0.51 (0.24, 1.09) |
| Change in unemployment | 1 (Ref.) | 1.09 (0.63, 1.87) | 0.77 (0.51, 1.16) | 0.74 (0.41, 1.32) |
| 2007-2016 | Model containing average variables | Average age | 1 (Ref.) | 1.15 (0.72, 1.81) | 0.74 (0.41, 1.36) | 0.71 (0.41, 1.24) |
| Average hospital density | 1 (Ref.) | 0.71 (0.49, 1.01) | 1 (0.68, 1.47) | 0.76 (0.52, 1.11) |
| Average tax base | 1 (Ref.) | 1.97\* (1.1, 3.53) | 2.68\* (1.34, 5.39) | 4.84\* (2.51, 9.33) |
| Average unemployment | 1 (Ref.) | 0.56\* (0.34, 0.9) | 0.39\* (0.21, 0.73) | 0.2\* (0.11, 0.37) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.91 (0.55, 1.53) | 0.83 (0.43, 1.59) | 0.6 (0.33, 1.1) |
| Average hospital density | 1 (Ref.) | 0.75 (0.51, 1.1) | 0.96 (0.64, 1.44) | 0.8 (0.53, 1.19) |
| Average tax base | 1 (Ref.) | 3.22\* (1.62, 6.41) | 2.65\* (1.2, 5.86) | 6.62\* (3.08, 14.24) |
| Average unemployment | 1 (Ref.) | 0.96 (0.55, 1.69) | 0.43\* (0.21, 0.86) | 0.3\* (0.15, 0.6) |
| Change in average age | 1 (Ref.) | 1.99\* (1.19, 3.32) | 0.9 (0.51, 1.57) | 1.54 (0.88, 2.68) |
| Change in hospital density | 1 (Ref.) | 0.67\* (0.46, 0.98) | 0.91 (0.58, 1.4) | 0.93 (0.6, 1.44) |
| Change in tax base | 1 (Ref.) | 1 (0.67, 1.51) | 1.37 (0.81, 2.33) | 1.16 (0.71, 1.9) |
| Change in unemployment | 1 (Ref.) | 1.67\* (1.13, 2.48) | 1.26 (0.8, 2.01) | 1.48 (0.94, 2.33) |
| Notes: \*p < 0.05 | | | | | | | |