| Sex | Period | Model | Variable | Increasing disadvantage | Decreasing disadvantage | Decreasing advantage | Increasing advantage |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Male | 1997-2016 | Model containing average variables | Average age | 1 (Ref.) | 1.29 (0.59, 2.83) | 0.8 (0.43, 1.5) | 0.49 (0.24, 1.02) |
| Average hospital density | 1 (Ref.) | 0.52 (0.25, 1.09) | 0.82 (0.49, 1.35) | 0.59 (0.34, 1.03) |
| Average tax base | 1 (Ref.) | 0.84 (0.29, 2.41) | 1.82 (0.8, 4.12) | 0.67 (0.26, 1.71) |
| Average unemployment | 1 (Ref.) | 1.15 (0.42, 3.14) | 0.23\* (0.11, 0.49) | 0.42 (0.17, 1) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.95 (0.38, 2.33) | 0.52 (0.25, 1.08) | 0.36\* (0.15, 0.84) |
| Average hospital density | 1 (Ref.) | 0.57 (0.26, 1.25) | 0.86 (0.49, 1.52) | 0.72 (0.38, 1.36) |
| Average tax base | 1 (Ref.) | 1.14 (0.24, 5.43) | 5.68\* (1.64, 19.75) | 1.88 (0.47, 7.56) |
| Average unemployment | 1 (Ref.) | 2.07 (0.65, 6.59) | 0.44 (0.18, 1.09) | 1.06 (0.38, 2.94) |
| Change in average age | 1 (Ref.) | 1.87 (0.71, 4.93) | 3.83\* (1.59, 9.21) | 4.72\* (1.74, 12.82) |
| Change in hospital density | 1 (Ref.) | 1.95 (0.97, 3.92) | 1.38 (0.84, 2.29) | 1.2 (0.68, 2.09) |
| Change in tax base | 1 (Ref.) | 2.58 (0.65, 10.23) | 1.31 (0.47, 3.69) | 2.97 (0.92, 9.65) |
| Change in unemployment | 1 (Ref.) | 1.63 (0.64, 4.15) | 2.41\* (1.19, 4.85) | 1.62 (0.73, 3.59) |
| 1997-2006 | Model containing average variables | Average age | 1 (Ref.) | 1.29 (0.51, 3.27) | 0.61 (0.31, 1.22) | 0.51 (0.22, 1.16) |
| Average hospital density | 1 (Ref.) | 0.52 (0.23, 1.18) | 0.52 (0.27, 1.01) | 0.68 (0.33, 1.42) |
| Average tax base | 1 (Ref.) | 0.96 (0.28, 3.35) | 1.76 (0.62, 5.02) | 1.23 (0.36, 4.19) |
| Average unemployment | 1 (Ref.) | 3 (0.9, 10.02) | 0.34\* (0.15, 0.77) | 0.57 (0.22, 1.48) |
| Model containing average and change variables | Average age | 1 (Ref.) | 1.17 (0.4, 3.4) | 0.54 (0.26, 1.12) | 0.43 (0.18, 1.03) |
| Average hospital density | 1 (Ref.) | 0.31\* (0.12, 0.84) | 0.54 (0.26, 1.1) | 0.63 (0.29, 1.39) |
| Average tax base | 1 (Ref.) | 0.26 (0.04, 1.71) | 2.46 (0.59, 10.14) | 0.93 (0.17, 5.28) |
| Average unemployment | 1 (Ref.) | 2.89 (0.75, 11.11) | 0.35\* (0.14, 0.86) | 0.63 (0.23, 1.74) |
| Change in average age | 1 (Ref.) | 0.27 (0.05, 1.36) | 2.07 (0.61, 7.04) | 1.11 (0.27, 4.64) |
| Change in hospital density | 1 (Ref.) | 2.87\* (1.15, 7.15) | 1.57 (0.78, 3.14) | 1.89 (0.89, 4.01) |
| Change in tax base | 1 (Ref.) | 1.1 (0.52, 2.31) | 0.93 (0.49, 1.78) | 1.12 (0.51, 2.46) |
| Change in unemployment | 1 (Ref.) | 2.21 (0.93, 5.25) | 1.44 (0.8, 2.61) | 1.81 (0.89, 3.7) |
| 2007-2016 | Model containing average variables | Average age | 1 (Ref.) | 0.77 (0.47, 1.27) | 0.74 (0.41, 1.33) | 0.58 (0.32, 1.05) |
| Average hospital density | 1 (Ref.) | 0.73 (0.45, 1.19) | 1.2 (0.74, 1.95) | 0.72 (0.44, 1.17) |
| Average tax base | 1 (Ref.) | 0.65 (0.34, 1.22) | 2.04\* (1.04, 4.01) | 1.82 (0.91, 3.66) |
| Average unemployment | 1 (Ref.) | 0.43\* (0.25, 0.73) | 0.34\* (0.18, 0.65) | 0.15\* (0.08, 0.3) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.38\* (0.21, 0.71) | 0.35\* (0.17, 0.73) | 0.25\* (0.12, 0.52) |
| Average hospital density | 1 (Ref.) | 0.78 (0.47, 1.3) | 1.29 (0.76, 2.17) | 0.82 (0.49, 1.38) |
| Average tax base | 1 (Ref.) | 1.13 (0.54, 2.37) | 4.89\* (2.05, 11.64) | 5.51\* (2.27, 13.39) |
| Average unemployment | 1 (Ref.) | 0.75 (0.4, 1.38) | 0.66 (0.31, 1.4) | 0.32\* (0.15, 0.68) |
| Change in average age | 1 (Ref.) | 3.09\* (1.74, 5.48) | 3.88\* (1.94, 7.79) | 6.09\* (2.99, 12.37) |
| Change in hospital density | 1 (Ref.) | 1.08 (0.67, 1.72) | 1.45 (0.86, 2.44) | 0.85 (0.5, 1.44) |
| Change in tax base | 1 (Ref.) | 0.87 (0.56, 1.35) | 1.02 (0.63, 1.64) | 1.14 (0.69, 1.89) |
| Change in unemployment | 1 (Ref.) | 1.17 (0.8, 1.72) | 1.23 (0.79, 1.93) | 0.99 (0.61, 1.61) |
| Female | 1997-2016 | Model containing average variables | Average age | 1 (Ref.) | 0.57 (0.28, 1.17) | 0.65 (0.36, 1.18) | 0.5 (0.24, 1.06) |
| Average hospital density | 1 (Ref.) | 0.43\* (0.23, 0.79) | 0.84 (0.52, 1.38) | 0.42\* (0.24, 0.75) |
| Average tax base | 1 (Ref.) | 0.72 (0.28, 1.84) | 2.61\* (1.21, 5.65) | 1.14 (0.46, 2.85) |
| Average unemployment | 1 (Ref.) | 1.02 (0.45, 2.32) | 0.25\* (0.13, 0.48) | 0.27\* (0.11, 0.62) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.3\* (0.13, 0.71) | 0.36\* (0.17, 0.74) | 0.25\* (0.1, 0.61) |
| Average hospital density | 1 (Ref.) | 0.6 (0.3, 1.18) | 1.13 (0.66, 1.95) | 0.74 (0.39, 1.4) |
| Average tax base | 1 (Ref.) | 2.36 (0.6, 9.37) | 8.1\* (2.63, 24.97) | 6.54\* (1.68, 25.43) |
| Average unemployment | 1 (Ref.) | 2.9\* (1.12, 7.54) | 0.51 (0.23, 1.11) | 0.76 (0.29, 2.01) |
| Change in average age | 1 (Ref.) | 6.69\* (2.5, 17.86) | 4.57\* (1.98, 10.52) | 12.03\* (4.29, 33.72) |
| Change in hospital density | 1 (Ref.) | 1.32 (0.72, 2.43) | 1.18 (0.73, 1.91) | 1.11 (0.63, 1.95) |
| Change in tax base | 1 (Ref.) | 2.17 (0.71, 6.63) | 1.02 (0.41, 2.54) | 1.31 (0.42, 4.1) |
| Change in unemployment | 1 (Ref.) | 0.87 (0.42, 1.79) | 0.84 (0.47, 1.52) | 0.51 (0.24, 1.09) |
| 1997-2006 | Model containing average variables | Average age | 1 (Ref.) | 0.62 (0.3, 1.27) | 0.47\* (0.28, 0.8) | 0.43\* (0.21, 0.86) |
| Average hospital density | 1 (Ref.) | 0.93 (0.52, 1.67) | 0.98 (0.63, 1.53) | 1.16 (0.68, 1.99) |
| Average tax base | 1 (Ref.) | 2.49 (0.85, 7.31) | 4.19\* (1.77, 9.93) | 3.82\* (1.27, 11.47) |
| Average unemployment | 1 (Ref.) | 1.71 (0.74, 3.94) | 0.51\* (0.29, 0.89) | 0.89 (0.41, 1.93) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.61 (0.28, 1.31) | 0.5\* (0.28, 0.87) | 0.45\* (0.21, 0.95) |
| Average hospital density | 1 (Ref.) | 0.76 (0.39, 1.47) | 1.08 (0.67, 1.75) | 1.12 (0.63, 1.99) |
| Average tax base | 1 (Ref.) | 1.1 (0.25, 4.92) | 7.59\* (2.42, 23.83) | 3.49 (0.71, 17.17) |
| Average unemployment | 1 (Ref.) | 1.58 (0.67, 3.7) | 0.44\* (0.24, 0.8) | 0.79 (0.35, 1.77) |
| Change in average age | 1 (Ref.) | 0.37 (0.12, 1.16) | 1.4 (0.56, 3.51) | 0.65 (0.2, 2.15) |
| Change in hospital density | 1 (Ref.) | 1.08 (0.61, 1.93) | 0.86 (0.55, 1.34) | 1.17 (0.69, 1.97) |
| Change in tax base | 1 (Ref.) | 0.99 (0.51, 1.92) | 0.73 (0.44, 1.2) | 0.92 (0.46, 1.85) |
| Change in unemployment | 1 (Ref.) | 1.01 (0.53, 1.94) | 0.64 (0.4, 1) | 0.78 (0.41, 1.47) |
| 2007-2016 | Model containing average variables | Average age | 1 (Ref.) | 0.6\* (0.36, 0.98) | 0.72 (0.37, 1.43) | 0.63 (0.33, 1.21) |
| Average hospital density | 1 (Ref.) | 0.74 (0.46, 1.17) | 1.35 (0.78, 2.35) | 0.81 (0.49, 1.33) |
| Average tax base | 1 (Ref.) | 1.31 (0.73, 2.37) | 2.89\* (1.41, 5.9) | 2.2\* (1.09, 4.44) |
| Average unemployment | 1 (Ref.) | 0.42\* (0.25, 0.73) | 0.18\* (0.08, 0.39) | 0.09\* (0.04, 0.19) |
| Model containing average and change variables | Average age | 1 (Ref.) | 0.27\* (0.14, 0.52) | 0.43\* (0.19, 0.99) | 0.19\* (0.08, 0.44) |
| Average hospital density | 1 (Ref.) | 0.82 (0.49, 1.35) | 1.41 (0.79, 2.54) | 1.06 (0.62, 1.84) |
| Average tax base | 1 (Ref.) | 3.17\* (1.45, 6.94) | 6.01\* (2.37, 15.28) | 8.2\* (3.21, 20.91) |
| Average unemployment | 1 (Ref.) | 0.65 (0.35, 1.23) | 0.25\* (0.1, 0.62) | 0.17\* (0.07, 0.4) |
| Change in average age | 1 (Ref.) | 5.05\* (2.59, 9.85) | 3.3\* (1.5, 7.27) | 11.13\* (5.05, 24.54) |
| Change in hospital density | 1 (Ref.) | 0.98 (0.61, 1.59) | 1.78 (0.97, 3.26) | 1.22 (0.7, 2.13) |
| Change in tax base | 1 (Ref.) | 0.89 (0.57, 1.38) | 1.17 (0.74, 1.87) | 0.8 (0.43, 1.5) |
| Change in unemployment | 1 (Ref.) | 0.79 (0.51, 1.21) | 0.87 (0.53, 1.44) | 0.78 (0.47, 1.3) |
| Notes: \*p < 0.05 | | | | | | | |