**Supplementary Table T3. Interrupted time series model results with maximum auto-correlation lag 0**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | pre-trend | | level change | | trend change | | spring | | summer | | autumn | |
|  | estimate (95% CI) | p | estimate (95% CI) | p | estimate (95% CI) | p | estimate (95% CI) | p | estimate (95% CI) | p | estimate (95% CI) | p |
| Hip Admissions | 0.995 (0.985,1.005) | 0.323 | 1.055 (0.902,1.235) | 0.503 | 0.991 (0.978,1.005) | 0.220 | 1.19 (1.036,1.367) | 0.014 | 1.207 (1.088,1.339) | 0.000 | 1.101 (0.983,1.234) | 0.098 |
| Hip Average Age | -0.015 (-0.134,0.104) | 0.806 | 1.571 (-0.863,4.004) | 0.206 | -0.06 (-0.208,0.088) | 0.427 | 1.52 (-0.079,3.119) | 0.062 | 2.09 (0.685,3.494) | 0.004 | 1.031 (-0.505,2.567) | 0.188 |
| Hip Prop Women | 0.999 (0.993,1.004) | 0.674 | 0.966 (0.826,1.13) | 0.662 | 1.007 (0.997,1.017) | 0.158 | 1.023 (0.937,1.116) | 0.617 | 1.088 (0.995,1.189) | 0.064 | 0.981 (0.878,1.096) | 0.730 |
| Hip Prop 2+ Charlson | 0.994 (0.98,1.009) | 0.455 | 1.411 (0.969,2.055) | 0.072 | 1.01 (0.989,1.031) | 0.344 | 1.195 (0.971,1.471) | 0.092 | 1.306 (1.043,1.637) | 0.020 | 1.003 (0.734,1.37) | 0.986 |
| Hip Prop High Deprivation | 1.003 (0.991,1.014) | 0.631 | 1.027 (0.846,1.247) | 0.787 | 1.004 (0.983,1.025) | 0.704 | 0.937 (0.819,1.072) | 0.342 | 0.877 (0.746,1.03) | 0.110 | 0.996 (0.831,1.193) | 0.965 |
| Hip LoS | -0.006 (-0.038,0.026) | 0.704 | 0.312 (-0.262,0.887) | 0.287 | -0.014 (-0.058,0.03) | 0.542 | 0.502 (0.132,0.872) | 0.008 | 0.135 (-0.292,0.562) | 0.537 | 0.1 (-0.287,0.487) | 0.612 |
| Hip Bed Occ | 0.997 (0.987,1.009) | 0.653 | 1 (0.824,1.215) | 0.997 | 0.987 (0.972,1.002) | 0.097 | 1.291 (1.125,1.48) | 0.000 | 1.283 (1.129,1.458) | 0.000 | 1.146 (0.984,1.334) | 0.080 |
| Hip Public Private | 1.013 (0.985,1.041) | 0.377 | 0.477 (0.29,0.782) | 0.003 | 0.981 (0.951,1.011) | 0.218 | 0.992 (0.809,1.217) | 0.939 | 1.361 (1.166,1.589) | 0.000 | 1.038 (0.847,1.273) | 0.718 |
| Knee Admissions | 0.995 (0.987,1.004) | 0.274 | 0.843 (0.702,1.013) | 0.068 | 1.005 (0.993,1.017) | 0.422 | 1.308 (1.154,1.483) | 0.000 | 1.26 (1.114,1.426) | 0.000 | 1.286 (1.147,1.441) | 0.000 |
| Knee Average Age | -0.078 (-0.157,0.001) | 0.053 | -1.632 (-3.299,0.035) | 0.055 | 0.211 (0.102,0.32) | 0.000 | 0.926 (-0.129,1.981) | 0.085 | 0.953 (-0.257,2.163) | 0.123 | 0.354 (-0.777,1.485) | 0.540 |
| Knee Prop Women | 1.004 (0.998,1.011) | 0.182 | 0.96 (0.84,1.097) | 0.551 | 0.994 (0.986,1.003) | 0.184 | 1.037 (0.939,1.146) | 0.474 | 1.017 (0.908,1.138) | 0.776 | 1.036 (0.928,1.157) | 0.529 |
| Knee Prop 2+ Charlson | 1.009 (0.988,1.031) | 0.384 | 0.638 (0.392,1.037) | 0.070 | 1.042 (1.008,1.077) | 0.015 | 1.156 (0.891,1.501) | 0.276 | 1.074 (0.829,1.393) | 0.589 | 0.909 (0.636,1.299) | 0.600 |
| Knee Prop High Deprivation | 1.005 (0.997,1.014) | 0.237 | 0.968 (0.784,1.195) | 0.761 | 0.986 (0.974,0.998) | 0.023 | 1.224 (1.099,1.363) | 0.000 | 1.075 (0.956,1.209) | 0.225 | 1.031 (0.911,1.166) | 0.631 |
| Knee LoS | -0.024 (-0.052,0.004) | 0.089 | 0.176 (-0.352,0.703) | 0.515 | -0.008 (-0.041,0.025) | 0.625 | 0.422 (0.117,0.726) | 0.007 | 0.15 (-0.174,0.475) | 0.364 | 0.396 (0.027,0.765) | 0.036 |
| Knee Bed Occ | 0.993 (0.984,1.001) | 0.074 | 0.834 (0.711,0.979) | 0.027 | 1 (0.989,1.011) | 0.993 | 1.42 (1.269,1.59) | 0.000 | 1.373 (1.217,1.548) | 0.000 | 1.465 (1.287,1.667) | 0.000 |
| Knee Public Private | 1.006 (0.98,1.032) | 0.667 | 0.621 (0.358,1.077) | 0.090 | 0.985 (0.961,1.01) | 0.225 | 1.119 (0.915,1.369) | 0.274 | 1.318 (1.035,1.678) | 0.025 | 1.139 (0.931,1.394) | 0.205 |
| Elec Emerg Ratio | 0.995 (0.987,1.002) | 0.167 | 0.725 (0.637,0.825) | 0.000 | 0.984 (0.975,0.994) | 0.001 | 0.992 (0.889,1.106) | 0.884 | 0.948 (0.84,1.07) | 0.392 | 0.973 (0.879,1.076) | 0.591 |