

**Table A1. Practice population characteristics included in regression models**

|   | mean    | sd      | p10     | p25     | p50     | p75     | p90      |
|---|---------|---------|---------|---------|---------|---------|----------|
| Practice list sized aged 15+ with no T2D diagnosis        | 6505.95 | 4245.30 | 2371.00 | 3574.08 | 5717.75 | 8411.00 | 11210.00 |
| Practice population male (%)                              | 50.16   | 2.21    | 48.21   | 48.93   | 49.72   | 50.86   | 52.68    |
| Practice population age 0-14 (%)                          | 17.46   | 3.86    | 13.45   | 15.26   | 17.14   | 19.41   | 22.16    |
| Practice population age 40-44 (%)                         | 6.43    | 1.30    | 5.02    | 5.57    | 6.27    | 7.17    | 8.17     |
| Practice population age 45-49 (%)                         | 6.94    | 0.95    | 6.00    | 6.48    | 6.97    | 7.46    | 7.95     |
| Practice population age 50-54 (%)                         | 7.06    | 1.23    | 5.58    | 6.52    | 7.23    | 7.84    | 8.35     |
| Practice population age 55-59 (%)                         | 6.40    | 1.40    | 4.60    | 5.67    | 6.61    | 7.32    | 7.92     |
| Practice population age 60-64 (%)                         | 5.34    | 1.43    | 3.42    | 4.46    | 5.45    | 6.29    | 7.04     |
| Practice population age 65-69 (%)                         | 4.80    | 1.68    | 2.55    | 3.63    | 4.86    | 5.92    | 6.93     |
| Practice population age 70-74 (%)                         | 4.60    | 2.11    | 1.91    | 3.11    | 4.59    | 5.97    | 7.22     |
| Practice population age 75+ (%)                           | 6.32    | 2.72    | 2.76    | 4.31    | 6.35    | 8.09    | 9.78     |
| % of Practice population living in most deprived quintile | 23.22   | 26.52   | 0.01    | 0.70    | 12.17   | 39.42   | 67.32    |
| % of practice population living in 2nd quintile           | 21.42   | 17.96   | 0.92    | 7.25    | 17.97   | 31.23   | 47.05    |
| % of practice population living in 3rd quintile           | 19.80   | 15.55   | 3.23    | 8.06    | 16.59   | 27.62   | 40.68    |
| % of practice population living in 4th quintile           | 18.32   | 15.94   | 0.99    | 4.64    | 15.27   | 27.70   | 40.12    |
| Diabetes prevalence (%)                                   | 7.21    | 2.16    | 4.85    | 6.00    | 7.11    | 8.27    | 9.55     |
| Practice population Mixed ethnicity (%)                   | 2.50    | 1.87    | 0.70    | 1.01    | 1.84    | 3.64    | 5.42     |
| Practice population Asian ethnicity (%)                   | 9.45    | 13.44   | 0.72    | 1.25    | 3.89    | 11.43   | 25.94    |
| Practice population Black ethnicity (%)                   | 4.33    | 6.92    | 0.16    | 0.34    | 1.15    | 5.23    | 13.38    |
| Practice population other ethnicity (%)                   | 1.26    | 1.84    | 0.10    | 0.17    | 0.45    | 1.62    | 3.62     |
|   | n       | %       |         |         |         |         |          |
| Rural practice  | 1136    | 16.5    |         |         |         |         |          |