### S5 Table. Sensitivity analysis of health deprivation

| Health deprivation        | Coef.      | p-value |
|---------------------------|------------|---------|
| **Age**                   | 0.73 (0.65, 0.82) | 0.00*   |
| **Marital status**        |            |         |
| Married                   | 0.78 (0.53, 1.16) | 0.23    |
| Divorced                  | 1.30 (0.85, 1.98) | 0.23    |
| Widowed                   | 0.66 (0.54, 1.37) | 0.52    |
| **Locality of practice**  |            |         |
| Suburban                  | 0.94 (0.73, 1.22) | 0.65    |
| Rural                     | 0.66 (0.47, 0.94) | 0.02*   |
| **Total CIRS score**      | 1.06 (1.03, 1.09) | 0.00*   |
| **Number of conditions**  | 1.08 (1.01, 1.14) | 0.02*   |
| Pain A01                  | 1.75 (1.34, 2.30) | 0.00*   |
| Trauma A82                | 2.37 (1.34, 4.21) | 0.00*   |
| High blood press. BP      | 0.67 (0.51, 0.88) | 0.00*   |
| IBS D93                   | 0.64 (0.42, 0.97) | 0.04*   |
| Retinopathy F83           | 0.28 (0.10, 0.82) | 0.02*   |
| Arthr. knee L90           | 1.27 (0.97, 1.67) | 0.08    |
| Osteoporosis L95          | 1.35 (1.00, 1.82) | 0.05*   |
| Alcohol abuse P15         | 1.76 (1.12, 2.76) | 0.01*   |
| Affect. psychosis P73     | 4.15 (1.80, 9.55) | 0.00*   |
| Depressive disord. P76    | 1.79 (1.38, 2.31) | 0.00*   |
| Chronic bronchitis R79    | 0.45 (0.23, 0.87) | 0.02*   |
| Asthma R96                | 0.68 (0.45, 1.01) | 0.06    |

* = significant; ☐ variables in CART; Q1, Q3 = 25th percentile and 75th percentile