Table S6. Trends in age-standardized smoking prevalence difference (PD) and prevalence ratio (PR) by gender and age group according to income tertile

|  | **2008** | | **2009** | | **2010** | | **2011** | | **2012** | | **2013** | | **2014** | | **2015** | | **2016** | | **P for trend** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PD/PR**  **(95% CI)** | | **PD/PR**  **(95% CI)** | | **PD/PR**  **(95% CI)** | | **PD/PR**  **(95% CI)** | | **PD/PR**  **(95% CI)** | | **PD/PR**  **(95% CI)** | | **PD/PR**  **(95% CI)** | | **PD/PR**  **(95% CI)** | | **PD/PR**  **(95% CI)** | | **2008-2016** | **2014-2016** |
|  |  |  |  | (2009-2010) | |  |  | (2011-2012) | |  |  | (2013-2014) | |  |  | (2015-2016) | |  |  |  |
| Men (age 30-59) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[KNHANES]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  |  | 11.1 (6.2 – 16.0) | |  |  | 10.6 (5.0 - 16.2) | |  |  | 8.8 (3.4 - 14.1) | |  |  | 7.2 (1.6 – 12.7) | |  | 0.6178 | 0.6551 |
| II |  |  |  | 5.3 (1.0 - 9.6) | |  |  | 2.6 (0.0 - 8.4) | |  |  | 6.6 (1.3 - 11.9) | |  |  | 4.0 (0.0 - 9.3) | |  | 0.6865 | 0.4444 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  |  | 1.23 (1.12 - 1.35) | |  |  | 1.21 (1.08 - 1.35) | |  |  | 1.17 (1.05 - 1.31) | |  |  | 1.17 (1.03 - 1.34) | |  | 0.8762 | 0.9479 |
| II |  |  |  | 1.11 (1.01 - 1.21) | |  |  | 1.05 (0.93 - 1.18) | |  |  | 1.14 (1.02 - 1.28) | |  |  | 1.11 (0.97 - 1.26) | |  | 0.7002 | 0.6970 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[KCHS]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  | 10.5 (9.2 - 11.7) | | 8.8 (7.5 - 10.1) | | 9.6 (8.3 - 10.8) | | 9.7 (8.4 – 11.0) | | 9.5 (8.2 - 10.8) | | 9.6 (8.3 - 10.8) | | 8.9 (7.6 - 10.2) | |  |  | 0.1751 | 0.3845 |
| II |  |  | 5.4 (4.2 - 6.6) | | 4.4 (3.2 - 5.7) | | 6.3 (5.0 - 7.5) | | 4.7 (3.5 - 5.9) | | 5.8 (4.6 - 7.1) | | 3.8 (2.6 - 5.1) | | 3.1 (1.9 - 4.4) | |  |  | <0.0001 | 0.2610 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  | 1.21 (1.18 - 1.24) | | 1.18 (1.15 - 1.21) | | 1.20 (1.17 - 1.23) | | 1.20 (1.17 - 1.24) | | 1.20 (1.17 - 1.24) | | 1.21 (1.18 - 1.24) | | 1.21 (1.18 - 1.24) | |  |  | 0.5994 | 0.9154 |
| II |  |  | 1.11 (1.09 - 1.14) | | 1.09 (1.06 - 1.12) | | 1.13 (1.1 - 1.16) | | 1.10 (1.07 - 1.13) | | 1.13 (1.10 - 1.16) | | 1.08 (1.06 - 1.11) | | 1.07 (1.04 - 1.10) | |  |  | 0.0005 | 0.3510 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[SSSK]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) | 9.7 (7.5 - 11.9) | |  |  | 13.5 (11.1 - 15.8) | |  |  | 9.4 (7.0 - 11.8) | |  |  | 10.9 (8.5 - 13.4) | |  |  | 9.7 (7.3 - 12.2) | | 0.1040 | 0.5339 |
| II | 5.7 (3.6 - 7.8) | |  |  | 8.9 (6.6 - 11.2) | |  |  | 5.5 (3.1 – 8.0) | |  |  | 6.3 (3.9 - 8.7) | |  |  | 4.7 (2.3 – 7.0) | | 0.1220 | 0.3505 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) | 1.19 (1.14 - 1.24) | |  |  | 1.29 (1.23 - 1.35) | |  |  | 1.20 (1.14 - 1.25) | |  |  | 1.24 (1.18 - 1.31) | |  |  | 1.23 (1.16 - 1.29) | | 0.1029 | 0.7893 |
| II | 1.11 (1.07 - 1.16) | |  |  | 1.19 (1.14 - 1.25) | |  |  | 1.12 (1.06 - 1.17) | |  |  | 1.14 (1.08 - 1.20) | |  |  | 1.10 (1.05 - 1.17) | | 0.1714 | 0.4151 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Men (age ≥60) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[KCHS]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  | 6.3 (4.5 - 8.2) | | 7.1 (5.3 - 8.8) | | 6.1 (4.3 – 7.8) | | 6.5 (4.8 - 8.2) | | 7.4 (5.8 - 9.0) | | 6.2 (4.5 - 7.9) | | 5.7 (4.1 - 7.3) | |  |  | 0.6006 | 0.7694 |
| II |  |  | 3.4 (1.7 - 5.2) | | 2.7 (1.0 - 4.3) | | 2.6 (1.0 - 4.3) | | 2.6 (0.9 - 4.2) | | 4.5 (3.0 - 6.1) | | 3.2 (1.7 - 4.7) | | 2.8 (1.4 - 4.1) | |  |  | 0.1668 | 0.6325 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  | 1.23 (1.16 - 1.31) | | 1.28 (1.21 - 1.36) | | 1.25 (1.17 - 1.33) | | 1.27 (1.19 - 1.36) | | 1.35 (1.26 - 1.44) | | 1.28 (1.19 - 1.36) | | 1.30 (1.21 - 1.39) | |  |  | 0.1100 | 0.4026 |
| II |  |  | 1.12 (1.06 - 1.19) | | 1.11 (1.04 - 1.18) | | 1.11 (1.04 - 1.18) | | 1.11 (1.04 - 1.18) | | 1.22 (1.14 - 1.30) | | 1.14 (1.07 - 1.22) | | 1.15 (1.07 - 1.23) | |  |  | 0.0383 | 0.8816 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[SSSK]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) | 4.3 (0.8 - 7.7) | |  |  | 2.3 (0.0 - 5.8) | |  |  | 7.5 (4.3 - 10.6) | |  |  | 2.7 (0.0 - 5.9) | |  |  | 1.9 (0.0 - 4.9) | | 0.1055 | 0.6995 |
| II | 4.2 (0.2 - 8.2) | |  |  | 1.1 (0.0 – 5.0) | |  |  | 7.0 (3.5 - 10.5) | |  |  | 2.3 (0.0 - 5.4) | |  |  | 1.3 (0.0 – 4.0) | | 0.1466 | 0.8287 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) | 1.13 (1.02 - 1.25) | |  |  | 1.13 (1.01 - 1.26) | |  |  | 1.37 (1.20 - 1.55) | |  |  | 1.16 (1.03 - 1.32) | |  |  | 1.15 (1.00 - 1.32) | | 0.1596 | 0.6559 |
| II | 1.11 (0.99 - 1.25) | |  |  | 1.03 (0.91 - 1.17) | |  |  | 1.32 (1.14 - 1.51) | |  |  | 1.09 (0.96 - 1.23) | |  |  | 1.1 (0.97 - 1.24) | | 0.1349 | 0.8499 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Women (age 30-59) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[KNHANES]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  |  | 6.4 (4.0 - 8.8) | |  |  | 6.6 (4.0 - 9.2) | |  |  | 5.6 (3.3 - 7.8) | |  |  | 6.3 (3.9 - 8.8) | |  | 0.9631 | 0.8285 |
| II |  |  |  | 0.7 (0.0 - 2.5) | |  |  | 0.8 (0.0 - 2.8) | |  |  | 2.1 (0.3 - 3.9) | |  |  | 2.6 (0.8 – 4.5) | |  | 0.4516 | 0.7919 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  |  | 2.62 (1.84 - 3.74) | |  |  | 2.58 (1.69 - 3.94) | |  |  | 2.71 (1.69 - 4.32) | |  |  | 2.72 (1.76 - 4.21) | |  | 0.9946 | 0.9875 |
| II |  |  |  | 1.21 (0.81 - 1.79) | |  |  | 1.26 (0.79 - 2.01) | |  |  | 1.69 (1.05 - 2.72) | |  |  | 1.67 (1.08 - 2.59) | |  | 0.6083 | 0.9619 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[KCHS]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  | 3.4 (3.0 - 3.9) | | 2.6 (2.1 - 3.1) | | 2.7 (2.3 - 3.2) | | 2.7 (2.3 - 3.2) | | 3.0 (2.6 - 3.5) | | 2.6 (2.1 - 3.1) | | 3.0 (2.5 - 3.5) | |  |  | 0.0045 | 0.1401 |
| II |  |  | 1.3 (0.9 - 1.7) | | 0.9 (0.5 - 1.2) | | 0.8 (0.5 - 1.2) | | 0.6 (0.3 – 1.0) | | 0.8 (0.4 - 1.2) | | 0.6 (0.2 – 1.0) | | 0.3 (0.0 - 0.6) | |  |  | 0.0001 | 0.1160 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  | 2.81 (2.45 - 3.21) | | 2.08 (1.81 - 2.38) | | 2.29 (1.99 - 2.63) | | 2.28 (1.98 - 2.62) | | 2.43 (2.10 - 2.81) | | 2.11 (1.84 - 2.42) | | 2.19 (1.92 - 2.50) | |  |  | 0.0011 | 0.5420 |
| II |  |  | 1.68 (1.45 - 1.95) | | 1.34 (1.16 - 1.55) | | 1.39 (1.20 - 1.61) | | 1.29 (1.11 - 1.49) | | 1.36 (1.17 - 1.58) | | 1.26 (1.09 - 1.46) | | 1.08 (0.93 - 1.25) | |  |  | <0.0001 | 0.0535 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[SSSK]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) | 2.3 (1.6 - 3.1) | |  |  | 2.2 (1.3 – 3.0) | |  |  | 3.6 (2.7 - 4.5) | |  |  | 2.7 (1.9 - 3.6) | |  |  | 1.7 (0.9 - 2.6) | | 0.0305 | 0.2071 |
| II | 0.1 (0.0 - 0.7) | |  |  | 0.7 (0.0 - 1.4) | |  |  | 2.1 (1.2 – 3.0) | |  |  | 1.4 (0.7 - 2.1) | |  |  | 0.4 (0.0 - 1.2) | | 0.0014 | 0.0843 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) | 2.17 (1.68 - 2.81) | |  |  | 2.05 (1.54 - 2.73) | |  |  | 2.70 (2.08 - 3.50) | |  |  | 2.21 (1.67 - 2.92) | |  |  | 1.77 (1.35 - 2.30) | | 0.2373 | 0.2588 |
| II | 1.06 (0.79 - 1.41) | |  |  | 1.34 (0.99 - 1.80) | |  |  | 2.00 (1.51 - 2.65) | |  |  | 1.62 (1.21 - 2.16) | |  |  | 1.20 (0.90 - 1.59) | | 0.0142 | 0.1320 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Women (age ≥60) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[KNHANES]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  | 1.9 (1.2 - 2.6) | | 2.2 (1.5 - 2.9) | | 2.1 (1.4 - 2.8) | | 2.0 (1.4 - 2.6) | | 1.5 (0.9 - 2.1) | | 1.2 (0.7 - 1.8) | | 1.5 (0.9 – 2.0) | |  |  | 0.0204 | 0.3365 |
| II |  |  | 0.5 (0.0 - 1.1) | | 0.6 (0.0 - 1.2) | | 0.6 (0.0 - 1.2) | | 0.4 (0.0 – 1.0) | | 0.7 (0.2 - 1.2) | | 0.2 (0.0 - 0.7) | | 0.2 (0.0 - 0.6) | |  |  | 0.5194 | 0.7081 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) |  |  | 1.51 (1.30 - 1.77) | | 1.66 (1.40 - 1.97) | | 1.75 (1.46 - 2.10) | | 1.75 (1.47 - 2.08) | | 1.61 (1.33 - 1.95) | | 1.48 (1.23 - 1.78) | | 1.78 (1.45 - 2.20) | |  |  | 0.2148 | 0.0455 |
| II |  |  | 1.17 (1.00 - 1.38) | | 1.18 (0.98 - 1.41) | | 1.21 (0.99 - 1.47) | | 1.17 (0.97 - 1.42) | | 1.29 (1.06 - 1.56) | | 1.06 (0.87 - 1.30) | | 1.12 (0.90 - 1.38) | |  |  | 0.6232 | 0.5341 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **[KCHS]** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Income tertile**  **(Reference is highest tertile [III])** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) | 0.4 (0.0 - 1.6) | |  |  | 0.7 (0.0 - 1.9) | |  |  | 0.5 (0.0 - 1.6) | |  |  | 0.2 (0.0 - 1.3) | |  |  | 0.5 (0.0 - 1.4) | | 0.9916 | 0.6106 |
| II | 1.9 (0.6 - 3.2) | |  |  | 1.7 (0.5 - 2.9) | |  |  | 1.5 (0.4 - 2.5) | |  |  | 0.6 (0.0 - 1.6) | |  |  | 0.5 (0.0 - 1.3) | | 0.2468 | 0.8932 |
| PR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| I (lowest tertile) | 1.18 (0.81 - 1.72) | |  |  | 1.07 (0.69 - 1.67) | |  |  | 1.17 (0.72 - 1.9) | |  |  | 1.06 (0.69 - 1.63) | |  |  | 1.27 (0.81 - 1.98) | | 0.9703 | 0.5507 |
| II | 1.60 (1.13 - 2.26) | |  |  | 1.59 (1.11 - 2.30) | |  |  | 1.78 (1.20 - 2.65) | |  |  | 1.26 (0.86 - 1.84) | |  |  | 1.28 (0.86 - 1.90) | | 0.6205 | 0.9431 |
| PD values are presented prevalence % (95% confidence interval)  PR values are presented ratio (95% confidence interval)  Data from the Korea National Health and Nutrition Examination Survey (KNHANES), the Korea Community Health Survey (KCHS) and the Social Survey of Statistics Korea (SSSK) | | | | | | | | | | | | | | | | | | | | |