Supplementary Material . Subgroup analysis for sex and school

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variables | Vigorous PA | Moderate PA | Muscle training | Sedentary time |
| PR (95% CI) | PR (95% CI) | PR (95% CI) | PR (95% CI) |
| **Subgroup: Male** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Household income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | High | 1.21 (1.19, 1.23) | 1.18 (1.14, 1.21) | 1.10 (1.08, 1.12) | 1.15 (1.13, 1.17) |
|  | Middle | 1.06 (1.04, 1.07) | 0.99 (0.96, 1.01) | 1.00 (0.98, 1.02) | 1.07 (1.06, 1.09) |
|  | Low | (reference) | (reference) | (reference) | (reference) |
| Father's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Tertiary or above | 1.15 (1.12, 1.18) | 1.21 (1.15, 1.27) | 1.04 (1.01, 1.08) | 1.14 (1.11, 1.18) |
|  | Upper secondary | 1.09 (1.06, 1.11) | 1.14 (1.08, 1.20) | 1.04 (1.01, 1.08) | 1.05 (1.02, 1.08) |
|  | Basic or less | (reference) | (reference) | (reference) | (reference) |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Tertiary or above | 1.17 (1.14, 1.20) | 1.23 (1.17, 1.30) | 1.11 (1.07, 1.15) | 1.08 (1.05, 1.12) |
|  | Upper secondary | 1.08 (1.05, 1.11) | 1.11 (1.05, 1.17) | 1.09 (1.05, 1.13) | 1.05 (1.02, 1.08) |
|  | Basic or less | (reference) | (reference) | (reference) | (reference) |
| Urbanization |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Metropolitan cities | 0.96 (0.94, 0.98) | 0.97 (0.93, 1.02) | 0.94 (0.91, 0.96) | 0.98 (0.96, 1.01) |
|  | Other cities | 0.95 (0.93, 0.98) | 0.95 (0.91, 1.00) | 0.95 (0.92, 0.98) | 0.97 (0.94, 1.00) |
|  | Rural areas | (reference) | (reference) | (reference) | (reference) |
| **Subgroup: Female** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Household income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | High | 1.21 (1.18, 1.24) | 1.07 (1.02, 1.11) | 1.13 (1.09, 1.17) | 1.13 (1.11, 1.15) |
|  | Middle | 0.99 (0.97, 1.02) | 0.87 (0.84, 0.91) | 0.93 (0.90, 0.97) | 1.04 (1.02, 1.05) |
|  | Low | (reference) | (reference) | (reference) | (reference) |
| Father's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Tertiary or above | 1.09 (1.04, 1.14) | 1.03 (0.94, 1.12) | 1.05 (0.98, 1.12) | 1.03 (1.00, 1.06) |
|  | Upper secondary | 1.04 (0.99, 1.08) | 1.00 (0.92, 1.09) | 1.00 (0.93, 1.07) | 0.96 (0.94, 0.99) |
|  | Basic or less | (reference) | (reference) | (reference) | (reference) |
|  |  |  |  |  | *(Continued)* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variables | Vigorous PA | Moderate PA | Muscle training | Sedentary time |
| PR (95% CI) | PR (95% CI) | PR (95% CI) | PR (95% CI) |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Basic or less | (reference) | (reference) | (reference) | (reference) |
|  | Upper secondary | 1.04 (0.99, 1.09) | 1.03 (0.94, 1.13) | 1.03 (0.96, 1.11) | 1.01 (0.98, 1.04) |
|  | Tertiary or above | 1.14 (1.09, 1.20) | 1.13 (1.04, 1.24) | 1.13 (1.05, 1.21) | 1.02 (0.99, 1.05) |
| Urbanization |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Rural areas | (reference) | (reference) | (reference) | (reference) |
|  | Other cities | 0.91 (0.86, 0.95) | 1.00 (0.92, 1.09) | 0.97 (0.91, 1.03) | 0.95 (0.92, 0.98) |
|  | Metropolitan cities | 0.92 (0.88, 0.97) | 1.05 (0.96, 1.13) | 1.02 (0.95, 1.09) | 0.98 (0.95, 1.01) |
| **Subgroup: High school** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Household income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Low | (reference) | (reference) | (reference) | (reference) |
|  | Middle | 0.98 (0.96, 0.99) | 0.89 (0.86, 0.92) | 0.97 (0.95, 1.00) | 1.06 (1.04, 1.07) |
|  | High | 1.15 (1.12, 1.17) | 1.06 (1.02, 1.09) | 1.12 (1.09, 1.15) | 1.12 (1.10, 1.13) |
| Father's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Basic or less | (reference) | (reference) | (reference) | (reference) |
|  | Upper secondary | 1.01 (0.98, 1.05) | 1.01 (0.95, 1.07) | 1.00 (0.97, 1.05) | 1.00 (0.98, 1.03) |
|  | Tertiary or above | 1.03 (1.00, 1.07) | 1.00 (0.94, 1.06) | 0.99 (0.95, 1.04) | 1.08 (1.05, 1.10) |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Basic or less | (reference) | (reference) | (reference) | (reference) |
|  | Upper secondary | 1.02 (0.99, 1.06) | 1.01 (0.95, 1.07) | 1.05 (1.00, 1.09) | 1.03 (1.01, 1.06) |
|  | Tertiary or above | 1.08 (1.04, 1.12) | 1.04 (0.98, 1.11) | 1.07 (1.02, 1.12) | 1.05 (1.03, 1.08) |
| Urbanization |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Rural areas | (reference) | (reference) | (reference) | (reference) |
|  | Other cities | 0.92 (0.88, 0.96) | 0.93 (0.87, 1.00) | 0.90 (0.85, 0.96) | 0.96 (0.93, 0.99) |
|  | Metropolitan cities | 0.91 (0.87, 0.95) | 0.94 (0.87, 1.01) | 0.88 (0.83, 0.94) | 0.98 (0.95, 1.01) |
| **Subgroup: Middle school** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Household income |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Low | (reference) | (reference) | (reference) | (reference) |
|  | Middle | 0.98 (0.97, 1.00) | 0.92 (0.89, 0.96) | 0.93 (0.91, 0.96) | 1.10 (1.08, 1.12) |
|  | High | 1.16 (1.14, 1.18) | 1.15 (1.11, 1.19) | 1.15 (1.12, 1.18) | 1.28 (1.25, 1.30) |
|  |  |  |  |  | *(Continued)* |
| Variables | Vigorous PA | Moderate PA | Muscle training | Sedentary time |
| PR (95% CI) | PR (95% CI) | PR (95% CI) | PR (95% CI) |
| Father's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Basic or less | (reference) | (reference) | (reference) | (reference) |
|  | Upper secondary | 1.01 (0.97, 1.04) | 1.09 (1.01, 1.16) | 0.98 (0.93, 1.03) | 1.05 (1.01, 1.09) |
|  | Tertiary or above | 1.04 (1.01, 1.08) | 1.16 (1.08, 1.24) | 1.02 (0.97, 1.07) | 1.18 (1.13, 1.22) |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Basic or less | (reference) | (reference) | (reference) | (reference) |
|  | Upper secondary | 1.00 (0.97, 1.04) | 1.08 (1.01, 1.16) | 1.06 (1.00, 1.12) | 1.05 (1.01, 1.09) |
|  | Tertiary or above | 1.07 (1.03, 1.10) | 1.23 (1.15, 1.32) | 1.15 (1.09, 1.22) | 1.13 (1.09, 1.17) |
| Urbanization |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 　 | Rural areas | (reference) | (reference) | (reference) | (reference) |
|  | Other cities | 0.92 (0.88, 0.95) | 0.94 (0.89, 1.00) | 0.96 (0.91, 1.01) | 0.96 (0.93, 0.99) |
|  | Metropolitan cities | 0.95 (0.92, 0.98) | 0.99 (0.94, 1.05) | 1.00 (0.95, 1.05) | 0.98 (0.95, 1.01) |

PA: physical activity; PR: prevalence ratio
All statistics were weighted.