**Additional file 1**

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| **Supplementary table S1** Associations between children’s MVPA time and children’s, paternal and maternal demographic characteristics | | | | | | |
|  | **Daily weekday MVPA time** | | **Daily weekend MVPA time** | | **Daily MVPA time** | |
| ≥60min,n(%) | *χ2/P* | ≥60min,n(%) | *χ2/P* | ≥60min,n(%) | *χ2/P* |
| *Children(n=1939)* |  |  |  |  |  |  |
| Gender |  |  |  |  |  |  |
| Male | 603(62.9) | 0.003/0.955 | 381(39.7) | 3.157/0.076 | 546(56.9) | 0.009/0.926 |
| Female | 615(62.8) |  | 351(35.8) |  | 560(57.1) |  |
| District |  |  |  |  |  |  |
| Urban | 506(56.5) | 28.063/**<0.001** | 344(38.4) | 0.331/0.565 | 462(51.6) | 19.825/**<0.001** |
| Rural | 712(68.2) |  | 388(37.2) |  | 644(61.7) |  |
| Schooling stage |  |  |  |  |  |  |
| Primary | 559(59.9) | 6.786/**0.009** | 405(43.4) | 24.138/**<0.001** | 533(57.1) | 0.001/0.982 |
| Middle | 659(65.6) |  | 327(32.5) |  | 573(57.0) |  |
| Weight status |  |  |  |  |  |  |
| Normal or wasting | 819(64.5) | 4.668/**0.031** | 481(37.9) | 0.036/0.849 | 732(57.7) | 0.621/0.431 |
| Overweight or obesity | 399(59.6) |  | 251(37.5) |  | 374(55.8) |  |
| *Father(n=472)* |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |
| ＜40 years | 178(64.7) | 0.540/0.462 | 109(39.6) | 0.323/0.570 | 168(61.1) | 0.663/0.415 |
| ≥40 years | 121(61.4) |  | 73(37.1) |  | 113(57.4) |  |
| Education level |  |  |  |  |  |  |
| Middle school or below | 175(68.9) | 7.301/**0.026** | 99(39.0) | 0.135/0.935 | 164(64.6) | 5.895/0.052 |
| Senior or junior school | 102(57.0) |  | 69(38.5) |  | 97(54.2) |  |
| University or above | 22(56.4) |  | 14(35.9) |  | 20(51.3) |  |
| Weight status |  |  |  |  |  |  |
| Normal or wasting | 117(64.6) | 0.212/0.646 | 70(38.7) | 0.002/0.968 | 110(60.8) | 0.187/0.665 |
| Overweight or obesity | 182(62.5) |  | 112(38.5) |  | 171(58.8) |  |
| *Mother(n=1276)* |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |
| ＜40 years | 594(61.7) | 1.015/0.314 | 374(38.8) | 0.583/0.445 | 542(56.3) | 0.144/0.704 |
| ≥40 years | 203(64.9) |  | 114(36.4) |  | 180(57.5) |  |
| Education level |  |  |  |  |  |  |
| Middle school or below | 403(66.6) | 8.588/**0.014** | 215(35.5) | 3.855/0.145 | 361(59.7) | 4.466/0.107 |
| Senior or junior school | 309(59.1) |  | 210(40.2) |  | 281(53.7) |  |
| University or above | 85(57.4) |  | 63(42.6) |  | 80(54.1) |  |
| Weight status |  |  |  |  |  |  |
| Normal or wasting | 425(59.9) | 4.621/**0.032** | 271(38.2) | 0.004/0.950 | 389(54.8) | 2.098/0.148 |
| Overweight or obesity | 372(65.7) |  | 217(38.3) |  | 333(58.8) |  |