

## Supplementary Data

**Supplementary Table S1.** Multicollinearity results: variance inflation (VIF) by variables

| <b>Variables</b>                                            | <b>Variance Inflation</b> |
|-------------------------------------------------------------|---------------------------|
| Physical environment: Number of devices at home             | 1.2169                    |
| Physical environment: Proportion of Child-owned Devices     | 1.0512                    |
| Physical environment: Child has own room                    | 1.1246                    |
| Parental practice: Restrict the Child's Screen Time         | 1.0507                    |
| Parental practice: Less screen time gets praise             | 1.1156                    |
| Parental practice: Family members have screen time together | 1.0195                    |
| Parent related behavior: Recreational screen sedentary time | 1.0534                    |
| Parent attitude: Too long sitting time can cause obesity    | 1.3671                    |
| Parent attitude: Too Long Sitting Time Is Bad for Health    | 1.3783                    |
| Parent attitude: I Prefer Sitting than Exercising           | 1.0413                    |
| Parent attitude: I Will Try to Reduce My Sitting Time       | 1.0648                    |
| Family communication quartile                               | 1.2354                    |
| Gender                                                      | 1.0347                    |
| Age of Child                                                | 1.5752                    |
| Minority                                                    | 1.0182                    |
| Region: Urban/Suburban                                      | 1.7683                    |
| Number of Children in the Household                         | 1.1673                    |
| Main Family Member Communicated with the Child Most         | 1.0828                    |
| Father's Education                                          | 2.5360                    |
| Mother's Education                                          | 2.5466                    |
| Household Monthly Income                                    | 1.4500                    |
| Child Schoolwork Related Sitting Time                       | 1.0240                    |
| Number of Days per Week: Child with 30+ Minutes Exercising  | 1.0947                    |

**Supplementary Table S2.** Multivariate regression results, coefficients of Model 1-4

| <b>Variables</b>                                            | <b>Coefficients</b> | <b>P-value</b> |
|-------------------------------------------------------------|---------------------|----------------|
| <b>Model 1: Unadjusted</b>                                  |                     |                |
| Physical environment: Number of devices at home             | 0.1327              | 0.9167         |
| Physical environment: Proportion of Child-owned Devices     | -0.0013             | 0.0005         |
| Physical environment: Child has own room                    | 0.0970              | 0.0002         |
| <b>Model 1: Adjusted</b>                                    |                     |                |
| Physical environment: Number of devices at home             | 0.0361              | 0.0146         |
| Physical environment: Proportion of Child-owned Devices     | 0.1168              | 0.0041         |
| Physical environment: Child has own room                    | 0.0702              | 0.0148         |
| <b>Model 2: Unadjusted</b>                                  |                     |                |
| Parental practice: Restrict the Child's Screen Time         | -0.1214             | <.0001         |
| Parental practice: Less screen time gets praise             | -0.0641             | 0.0017         |
| Parental practice: Family members have screen time together | 0.0986              | 0.0002         |
| <b>Model 2: Adjusted</b>                                    |                     |                |
| Parental practice: Restrict the Child's Screen Time         | -0.1120             | <.0001         |
| Parental practice: Less screen time gets praise             | -0.0542             | 0.0137         |
| Parental practice: Family members have screen time together | 0.0861              | 0.0026         |
| <b>Model 3: Unadjusted</b>                                  |                     |                |
| Parent related behavior: Recreational screen sedentary time | 0.0236              | <.0001         |
| Parent attitude: Too long sitting time can cause obesity    | 0.0149              | 0.5905         |
| Parent attitude: Too Long Sitting Time Is Bad for Health    | -0.0510             | 0.1118         |
| Parent attitude: I Prefer Sitting than Exercising           | -0.0102             | 0.7311         |
| Parent attitude: I Will Try to Reduce My Sitting Time       | -0.0654             | 0.0043         |
| <b>Model 3: Adjusted</b>                                    |                     |                |
| Parent related behavior: Recreational screen sedentary time | 0.0207              | 0.0004         |
| Parent attitude: Too long sitting time can cause obesity    | 0.0282              | 0.3458         |
| Parent attitude: Too Long Sitting Time Is Bad for Health    | -0.0305             | 0.3756         |
| Parent attitude: I Prefer Sitting than Exercising           | -0.0041             | 0.8958         |
| Parent attitude: I Will Try to Reduce My Sitting Time       | -0.0715             | 0.0037         |
| <b>Model 4: Unadjusted</b>                                  |                     |                |
| Physical environment: Number of devices at home             | -0.0036             | 0.7834         |
| Physical environment: Proportion of Child-owned Devices     | 0.1135              | 0.0039         |
| Physical environment: Child has own room                    | 0.0881              | 0.0009         |
| Parental practice: Restrict the Child's Screen Time         | -0.1178             | <.0001         |
| Parental practice: Less screen time gets praise             | -0.0485             | 0.0233         |
| Parental practice: Family members have screen time together | 0.1031              | 0.0002         |
| Parent related behavior: Recreational screen sedentary time | 0.0206              | 0.0001         |
| Parent attitude: Too long sitting time can cause obesity    | 0.0141              | 0.6162         |
| Parent attitude: Too Long Sitting Time Is Bad for Health    | -0.0452             | 0.1657         |

|                                                             |         |        |
|-------------------------------------------------------------|---------|--------|
| Parent attitude: I Prefer Sitting than Exercising           | -0.0042 | 0.8884 |
| Parent attitude: I Will Try to Reduce My Sitting Time       | -0.0596 | 0.0099 |
| <b>Model 4: Adjusted</b>                                    |         |        |
| Physical environment: Number of devices at home             | 0.0284  | 0.0639 |
| Physical environment: Proportion of Child-owned Devices     | 0.1109  | 0.0088 |
| Physical environment: Child has own room                    | 0.0644  | 0.0289 |
| Parental practice: Restrict the Child's Screen Time         | -0.1103 | <.0001 |
| Parental practice: Less screen time gets praise             | -0.0378 | 0.0990 |
| Parental practice: Family members have screen time together | 0.0800  | 0.0074 |
| Parent related behavior: Recreational screen sedentary time | 0.0172  | 0.0036 |
| Parent attitude: Too long sitting time can cause obesity    | 0.0269  | 0.3732 |
| Parent attitude: Too Long Sitting Time Is Bad for Health    | -0.0277 | 0.4298 |
| Parent attitude: I Prefer Sitting than Exercising           | 0.0034  | 0.9155 |
| Parent attitude: I Will Try to Reduce My Sitting Time       | -0.0678 | 0.0065 |

**Supplementary Table S3.** Multivariate regression results, coefficients of Model 5

| <b>Variables</b>                                                                       | <b>Coefficients</b> | <b>P-value</b> |
|----------------------------------------------------------------------------------------|---------------------|----------------|
| <b>Model 5: Unadjusted</b>                                                             |                     |                |
| Physical environment: Number of devices at home                                        | 0.0247              | 0.3878         |
| Physical environment: Proportion of Child-owned Devices                                | 0.0163              | 0.8416         |
| Physical environment: Child has own room                                               | 0.0466              | 0.4622         |
| Number of devices at home * Family communication (2nd vs. 1 <sup>st</sup> quartile)    | -0.0082             | 0.8368         |
| Number of devices at home * Family communication (3rd vs. 1 <sup>st</sup> quartile)    | -0.0417             | 0.2986         |
| Number of devices at home * Family communication (4th vs. 1 <sup>st</sup> quartile)    | -0.0646             | 0.1080         |
| Proportion of Child-owned Devices * Family communication (2nd vs. 1st quartile)        | 0.0932              | 0.4188         |
| Proportion of Child-owned Devices * Family communication (3rd vs. 1st quartile)        | 0.1113              | 0.3564         |
| Proportion of Child-owned Devices * Family communication (3rd vs. 1st quartile)        | 0.1160              | 0.3169         |
| Child has own room * Family communication (2nd vs. 1st quartile)                       | -0.0099             | 0.9075         |
| Child has own room * Family communication (3rd vs. 1st quartile)                       | 0.0268              | 0.7456         |
| Child has own room * Family communication (4th vs. 1st quartile)                       | 0.0853              | 0.2970         |
| Parental practice: Restrict the Child's Screen Time                                    | 0.0351              | 0.5849         |
| Parental practice: Less screen time gets praise                                        | -0.1045             | 0.0203         |
| Parental practice: Family members have screen time together                            | 0.0786              | 0.1628         |
| Restrict the Child's Screen Time * Family communication (2nd vs. 1st quartile)         | -0.1448             | 0.0815         |
| Restrict the Child's Screen Time * Family communication (3rd vs. 1st quartile)         | -0.1166             | 0.1558         |
| Restrict the Child's Screen Time * Family communication (4th vs. 1st quartile)         | -0.2822             | 0.0005         |
| Less screen time gets praise * Family communication (2nd vs. 1st quartile)             | 0.0750              | 0.2317         |
| Less screen time gets praise * Family communication (3rd vs. 1st quartile)             | 0.0355              | 0.5845         |
| Less screen time gets praise * Family communication (4th vs. 1st quartile)             | 0.2072              | 0.0038         |
| Family members have screen time together * Family communication (2nd vs. 1st quartile) | -0.0369             | 0.6431         |
| Family members have screen time together * Family communication (3rd vs. 1st quartile) | 0.0215              | 0.7902         |
| Family members have screen time together * Family communication (4th vs. 1st quartile) | 0.0600              | 0.4923         |
| Parent related behavior: Recreational screen sedentary time                            | 0.0567              | <.0001         |
| Parent attitude: Too long sitting time can cause obesity                               | 0.0959              | 0.1157         |
| Parent attitude: Too Long Sitting Time Is Bad for Health                               | -0.1135             | 0.1028         |
| Parent attitude: I Prefer Sitting than Exercising                                      | -0.0837             | 0.2173         |
| Parent attitude: I Will Try to Reduce My Sitting Time                                  | -0.0434             | 0.3985         |
| Recreational screen sedentary time * Family communication (2nd vs. 1st quartile)       | -0.0243             | 0.1439         |
| Recreational screen sedentary time * Family communication (3rd vs. 1st quartile)       | -0.0493             | 0.0042         |
| Recreational screen sedentary time * Family communication (4th vs. 1st quartile)       | -0.0605             | 0.0005         |
| Too long sitting time can cause obesity * Family communication (2nd vs. 1st quartile)  | -0.0673             | 0.4240         |
| Too long sitting time can cause obesity * Family communication (3rd vs. 1st quartile)  | -0.1023             | 0.2264         |
| Too long sitting time can cause obesity * Family communication (4th vs. 1st quartile)  | -0.1325             | 0.1284         |
| <b>Model 5: Adjusted</b>                                                               |                     |                |
| Physical environment: Number of devices at home                                        | 0.0584              | 0.0429         |

|                                                                                        |         |        |
|----------------------------------------------------------------------------------------|---------|--------|
| Physical environment: Proportion of Child-owned Devices                                | 0.0590  | 0.4769 |
| Physical environment: Child has own room                                               | -0.0173 | 0.7862 |
| Number of devices at home * Family communication (2nd vs. 1 <sup>st</sup> quartile)    | -0.0011 | 0.9774 |
| Number of devices at home * Family communication (3rd vs. 1 <sup>st</sup> quartile)    | -0.0504 | 0.2105 |
| Number of devices at home * Family communication (4th vs. 1 <sup>st</sup> quartile)    | -0.0670 | 0.0955 |
| Proportion of Child-owned Devices * Family communication (2nd vs. 1st quartile)        | 0.0517  | 0.6562 |
| Proportion of Child-owned Devices * Family communication (3rd vs. 1st quartile)        | 0.0757  | 0.5360 |
| Proportion of Child-owned Devices * Family communication (3rd vs. 1st quartile)        | 0.0434  | 0.7119 |
| Child has own room * Family communication (2nd vs. 1st quartile)                       | 0.0326  | 0.7047 |
| Child has own room * Family communication (3rd vs. 1st quartile)                       | 0.1052  | 0.2079 |
| Child has own room * Family communication (4th vs. 1st quartile)                       | 0.1357  | 0.1007 |
| Parental practice: Restrict the Child's Screen Time                                    | 0.0324  | 0.6167 |
| Parental practice: Less screen time gets praise                                        | -0.0853 | 0.0592 |
| Parental practice: Family members have screen time together                            | 0.0509  | 0.3696 |
| Restrict the Child's Screen Time * Family communication (2nd vs. 1st quartile)         | -0.1279 | 0.1268 |
| Restrict the Child's Screen Time * Family communication (3rd vs. 1st quartile)         | -0.1092 | 0.1896 |
| Restrict the Child's Screen Time * Family communication (4th vs. 1st quartile)         | -0.2774 | 0.0007 |
| Less screen time gets praise * Family communication (2nd vs. 1st quartile)             | 0.0517  | 0.4106 |
| Less screen time gets praise * Family communication (3rd vs. 1st quartile)             | 0.0288  | 0.6602 |
| Less screen time gets praise * Family communication (4th vs. 1st quartile)             | 0.1749  | 0.0152 |
| Family members have screen time together * Family communication (2nd vs. 1st quartile) | -0.0091 | 0.9099 |
| Family members have screen time together * Family communication (3rd vs. 1st quartile) | 0.0240  | 0.7729 |
| Family members have screen time together * Family communication (4th vs. 1st quartile) | 0.0896  | 0.3065 |
| Parent related behavior: Recreational screen sedentary time                            | 0.0526  | <.0001 |
| Parent attitude: Too long sitting time can cause obesity                               | 0.0948  | 0.1219 |
| Parent attitude: Too Long Sitting Time Is Bad for Health                               | -0.0941 | 0.1771 |
| Parent attitude: I Prefer Sitting than Exercising                                      | -0.0789 | 0.2513 |
| Parent attitude: I Will Try to Reduce My Sitting Time                                  | -0.0438 | 0.3988 |
| Recreational screen sedentary time * Family communication (2nd vs. 1st quartile)       | -0.0244 | 0.1519 |
| Recreational screen sedentary time * Family communication (3rd vs. 1st quartile)       | -0.0539 | 0.0024 |
| Recreational screen sedentary time * Family communication (4th vs. 1st quartile)       | -0.0590 | 0.0009 |
| Too long sitting time can cause obesity * Family communication (2nd vs. 1st quartile)  | -0.0559 | 0.5093 |
| Too long sitting time can cause obesity * Family communication (3rd vs. 1st quartile)  | -0.0868 | 0.3106 |
| Too long sitting time can cause obesity * Family communication (4th vs. 1st quartile)  | -0.1328 | 0.1314 |

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