**Online supplementary material: Full model results of GEE analyses for associations between built environment measures and physical activity variables on weekdays (n = 235 participants, 1244 observations for %MVPA, 1241 observations for proportion of trips made by active modes) and weekend days (n = 210 participants, 392 observations)**

Notes: %MVPA = proportion of out-of-school time spent in moderate-to-vigorous intensity physical activity; CI = confidence interval; GEE = generalised estimating equation; n = number; NDAI-C = Neighbourhood Destination Accessibility Index-Child; NZDep2013 = New Zealand Deprivation Index 2013; NZ-SPACES = New Zealand Systematic Pedestrian and Cycling Environmental Scale

Table S1: Results of GEE analyses for associations between street connectivity and %MVPA on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | %MVPA on weekdays | %MVPA on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| Street connectivity | 0.065 | (-0.306, 0.436) | 0.731 | -0.322  | (-0.872, 0.229) | 0.253 |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -3.138  | (-4.420, -1.857) | <0.0001 | -4.107 | (-6.038, -2.176) | <0.0001 |
| Age (years) | -0.955 | (-1.756, -0.155) | 0.019 | -0.381 | (-1.893, 1.130) | 0.621 |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 0.674  | (-1.543, 2.890) | 0.551 | 1.708 | (-2.314, 5.729) | 0.405 |
| Pacific Island | 2.054 | (0.121, 3.986) | 0.037 | 0.307  | (-2.658, 3.273) | 0.839 |
| Indian/Asian/Other ethnicity | -1.447  | (-3.270, 0.376) | 0.120 | -4.262  | (-7.071, -1.453) | 0.003 |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -0.636 | (-2.226, 0.954) | 0.433 | -1.865  | (-4.478, 0.747) | 0.162 |
| Higher (NZDep2013 1-3) | 0.324 | (-1.954, 2.602) | 0.780 | -3.223 | (-6.884, 0.437) | 0.084 |
| Parent neighbourhood perception score | 0.027  | (-0.323, 0.376) | 0.882 | 0.057 | (-0.512, 0.627) | 0.843 |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -1.897  | (-4.351, 0.557) | 0.130  | -1.934  | (-5.442, 1.574) | 0.280 |
| Always |  -3.275 | (-5.557, -0.993) | 0.005  | -0.576 | (-3.960, 2.809) | 0.739 |

Table S2: Results of GEE analyses for associations between residential density and %MVPA on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | %MVPA on weekdays | %MVPA on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| Residential density | -0.037 | (-0.615, 0.542) | 0.901 | -0.657  | (-1.679, 0.366) | 0.208  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -3.152 | (-4.434, -1.869) | <0.0001 | -4.115  | (-6.018, -2.212) | <0.0001 |
| Age (years) | -0.942  | (-1.755, -0.128) | 0.023 | -0.523 | (-2.016, 0.971) | 0.493  |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 0.596  | (-1.651, 2.843) | 0.603  | 1.515  | (-2.530, 5.560) | 0.463  |
| Pacific Island | 1.952  | (0.046, 3.858) | 0.045  | 0.236  | (-2.793, 3.266) | 0.878  |
| Indian/Asian/Other ethnicity | -1.454 | (-3.300, 0.393) | 0.123  | -4.525  | (-7.405, -1.646) | 0.002  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -0.653  | (-2.238, 0.933) | 0.420  | -1.699  | (-4.361, 0.962) | 0.211  |
| Higher (NZDep2013 1-3) | 0.364  | (-1.873, 2.602) | 0.750  | -2.942  | (-6.664, 0.780) | 0.121 |
| Parent neighbourhood perception score | 0.034  | (-0.313, 0.380) | 0.849 | 0.021  | (-0.549, 0.591) | 0.943  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -1.884239  | (-4.336, 0.568) | 0.132  | -1.994  | (-5.534, 1.545) | 0.269  |
| Always | -3.305003 | (-5.581, -1.029) | 0.004 | -0.307  | (-3.581, 2.968) | 0.854 |

Table S3: Results of GEE analyses for associations between ratio of high speed to low speed roads and %MVPA on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | %MVPA on weekdays | %MVPA on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| Ratio of high speed to low speed roads | -2.538  | (-4.912, -0.164) | 0.036  | -2.853  | (-6.760, 1.053) | 0.152  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -3.248  | (-4.511, -1.984) | <0.0001 | -4.178  | (-6.131, -2.226) | <0.0001 |
| Age (years) | -1.172 | (-2.045, -0.300) | 0.008  | -0.748  | (-2.282, 0.787) | 0.340  |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 0.531  | (-1.629, 2.691) | 0.630  | 1.933  | (-1.976, 5.843) | 0.332  |
| Pacific Island | 1.649 | (-0.241, 3.539) | 0.087 | 0.382 | (-2.570, 3.333) | 0.800 |
| Indian/Asian/Other ethnicity | -1.357  | (-3.123, 0.409) | 0.132 | -4.148 | (-6.916, -1.381) | 0.003  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -0.756  | (-2.337, 0.825) | 0.349  | -1.950 | (-4.588, 0.688) | 0.147  |
| Higher (NZDep2013 1-3) | 0.751  | (-1.424, 2.925) | 0.499 | -3.080  | (-6.543, 0.384) | 0.081  |
| Parent neighbourhood perception score | 0.079  | (-0.260, 0.418) | 0.649  | 0.070  | (-0.516, 0.655) | 0.816 |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -1.855 | (-4.245, 0.536) | 0.128  | -1.990  | (-5.443, 1.464) | 0.259 |
| Always | -3.253  | (-5.471, -1.035) | 0.004  | -0.375 | (-3.630, 2.880) | 0.821 |

Table S4: Results of GEE analyses for associations between NZ-SPACES and %MVPA on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | %MVPA on weekdays | %MVPA on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| NZ-SPACES | 1.865  | (0.136, 3.595) | 0.034  | -1.066  | (-3.888, 1.757) | 0.459 |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -3.208 | (-4.472, -1.944) | <0.0001 | -4.037  | (-5.959, -2.115) | <0.0001 |
| Age (years) | -.745  | (-1.543, 0.0531) | 0.067  | -0.591  | (-2.088, 0.905) | 0.439  |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 0.949  | (-1.217, 3.115) | 0.391  | 1.781  | (-2.297, 5.860) | 0.392  |
| Pacific Island | 2.185 | (0.373, 3.996) | 0.018 | 0.638  | (-2.308, 3.583) | 0.671  |
| Indian/Asian/Other ethnicity | -1.272 | (-3.097, 0.554) | 0.172 | -4.379 | (-7.273, -1.484) | 0.003  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -0.567 | (-2.133, 1.000) | 0.478  | -1.820 | (-4.494, 0.855) | 0.182  |
| Higher (NZDep2013 1-3) | 0.280 | (-1.982, 2.543) | 0.808  | -3.356 | (-6.950, 0.239) | 0.067 |
| Parent neighbourhood perception score | 0.034 | (-0.314, 0.382) | 0.849 | 0.024 | (-0.557, 0.605) | 0.935  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -1.839 | (-4.223, 0.546) | 0.131 | -1.968 | (-5.540, 1.604) | 0.280 |
| Always | -3.171 | (-5.377, -0.964) | 0.005 | -0.469  | (-3.871, 2.934) | 0.787  |

Table S5: Results of GEE analyses for associations between distance to school and %MVPA on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | %MVPA on weekdays | %MVPA on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| Distance to school (log) | 0.131  | (-0.503, 0.766) | 0.685  | -0.669  | (-1.677, 0.339) | 0.193  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -3.134  | (-4.411, -1.858) | <0.0001 | -4.148  | (-6.073, -2.224) | <0.0001 |
| Age (years) | -0.945  | (-1.760, -0.130) | 0.023  | -0.436  | (-1.952, 1.080) | 0.573  |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 0.639  | (-1.540, 2.819) | 0.566 | 1.907  | (-2.057, 5.871) | 0.346  |
| Pacific Island | 1.983  | (0.161, 3.805) | 0.033  | 0.802  | (-2.117, 3.721) | 0.590  |
| Indian/Asian/Other ethnicity | -1.431 | (-3.254, 0.391) | 0.124  | -4.252  | (-7.118, -1.386) | 0.004  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -0.706 | (-2.304, 0.891) | 0.386  | -1.536  | (-4.232, 1.161) | 0.264  |
| Higher (NZDep2013 1-3) | 0.267 | (-2.018, 2.553) | 0.819  | -2.981  | (-6.723, 0.761) | 0.118  |
| Parent neighbourhood perception score | 0.039 | (-0.311, 0.389) | 0.827  | -0.014 | (-0.598, 0.570) | 0.962  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -1.928 | (-4.364, 0.507) | 0.121  | -1.691  | (-5.196, 1.814) | 0.344  |
| Always | -3.397 | (-5.678, -1.116) | 0.004  | 0.069 | (-3.248, 3.387) | 0.967  |

Table S6: Results of GEE analyses for associations between NDAI-C and %MVPA on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | %MVPA on weekdays | %MVPA on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| NDAI-C | -0.010 | (-0.036, 0.016) | 0.443  | -0.046 | (-0.090, -0.002) | 0.040  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -3.179  | (-4.451, -1.907) | <0.0001 | -4.210  | (-6.131, -2.289) | <0.0001 |
| Age (years) | -0.922  | (-1.744, -0.100) | 0.028  | -0.380  | (-1.923, 1.164) | 0.630  |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 0.515  | (-1.670, 2.699) | 0.644  | 1.332  | (-2.680, 5.343) | 0.515  |
| Pacific Island | 1.871 | (0.0367, 3.706) | 0.046  | 0.185  | (-2.786, 3.156) | 0.903  |
| Indian/Asian/Other ethnicity | -1.384  | (-3.194, 0.426) | 0.134  | -4.163  | (-6.942, -1.384) | 0.003  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -0.788  | (-2.395, 0.820) | 0.337  | -2.332 | (-4.939, 0.274) | 0.079  |
| Higher (NZDep2013 1-3) | 0.374  | (-1.863, 2.610) | 0.743  | -2.957 | (-6.645, 0.731) | 0.116  |
| Parent neighbourhood perception score | 0.044  | (-0.301, 0.389) | 0.803  | 0.062 | (-0.497, 0.621) | 0.828  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -1.833 | (-4.279, 0.613) | 0.142  | -1.936 | (-5.355, 1.482) | 0.267  |
| Always | -3.364  | (-5.646, -1.081) | 0.004  | -0.811  | (-4.099, 2.477) | 0.629  |

Table S7: Results of GEE analyses for associations between street connectivity and proportion of trips made by active modes on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | Proportion of trips made by active modes on weekdays | Proportion of trips made by active modes on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| Street connectivity | 3.876  | (1.868, 5.884) | <0.0001 | 3.975  | (1.401, 6.548) | 0.002  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -3.432  | (-10.383, 3.519) | 0.333  | -3.911  | (-12.231, 4.409) | 0.357  |
| Age (years) | 4.708 | (-0.085, 9.501) | 0.054  | 10.410  | (4.345, 16.475) | 0.001  |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 12.110  | (-0.760, 24.979) | 0.065  | 0.126  | (-14.253, 14.505) | 0.986  |
| Pacific Island | 11.584  | (1.217, 21.952) | 0.029  | -7.717 | (-19.549, 4.114) | 0.201  |
| Indian/Asian/Other ethnicity | -2.061 | (-11.839, 7.716) | 0.679  | -6.551 | (-17.189, 4.087) | 0.227  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -9.618  | (-18.542, -0.694) | 0.035  | -15.190  | (-26.864, -3.515) | 0.011  |
| Higher (NZDep2013 1-3) | -11.713 | (-24.244, 0.817) | 0.067  | -21.889 | (-35.897, -7.881) | 0.002  |
| Parent neighbourhood perception score | 2.025  | (-0.175, 4.224) | 0.071  | 1.569 | (-1.109, 4.248) | 0.251  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -21.508  | (-30.936, -12.080) | <0.0001 | -12.138 | (-27.445, 3.169) | 0.120  |
| Always | -38.301  | (-47.852, -28.749) | <0.0001 | -22.015 | (-35.014, -9.016) | 0.001  |

Table S8: Results of GEE analyses for associations between residential density and proportion of trips made by active modes on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | Proportion of trips made by active modes on weekdays | Proportion of trips made by active modes on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| Residential density | -1.007  | (-4.331, 2.318) | 0.553  | 3.544 | (-0.037, 7.126) | 0.052  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -4.101 | (-11.152, 2.949) | 0.254  | -4.208  | (-12.621, 4.204) | 0.327  |
| Age (years) | 5.583  | (0.501, 10.664) | 0.031  | 11.940  | (5.850, 18.029) | <0.0001 |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 8.437 | (-5.026, 21.900) | 0.219  | -0.969  | (-15.921, 13.983) | 0.899  |
| Pacific Island | 6.431 | (-4.381, 17.243) | 0.244  | -10.511  | (-22.528, 1.507) | 0.086  |
| Indian/Asian/Other ethnicity | -1.992 | (-12.491, 8.507) | 0.710  | -5.134 | (-16.125, 5.856) | 0.360  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -10.593 | (-19.969, -1.218) | 0.027  | -16.817  | (-28.762, -4.872) | 0.006  |
| Higher (NZDep2013 1-3) | -9.870  | (-22.466, 2.726) | 0.125  | -21.913 | (-36.448, -7.378) | 0.003  |
| Parent neighbourhood perception score | 2.449 | (0.268, 4.630) | 0.028  | 1.968  | (-0.801, 4.736) | 0.164  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -20.602  | (-31.094, -10.109) | <0.0001 | -11.521  | (-27.797, 4.755) | 0.165  |
| Always | -40.213  | (-50.593, -29.833) | <0.0001 | -24.598 | (-38.735, -10.461) | 0.001  |

Table S9: Results of GEE analyses for associations between ratio of high speed to low speed roads and proportion of trips made by active modes on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | Proportion of trips made by active modes on weekdays | Proportion of trips made by active modes on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| Ratio of high speed to low speed roads | 12.493  | (-0.897, 25.882) | 0.067  | 6.784 | (-10.647, 24.216) | 0.446  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -3.493  | (-10.602, 3.617) | 0.336  | -4.241  | (-12.723, 4.241) | 0.327  |
| Age (years) | 6.805  | (1.735, 11.875) | 0.009  | 12.383 | (6.220, 18.545) | <0.0001 |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 9.706 | (-3.505, 22.917) | 0.150  | -3.472 | (-18.296, 11.351) | 0.646  |
| Pacific Island | 8.758  | (-1.890, 19.405) | 0.107  | -12.430  | (-24.792, -0.068) | 0.049  |
| Indian/Asian/Other ethnicity | -2.030  | (-12.392, 8.331) | 0.701  | -6.818  | (-17.628, 3.991) | 0.216  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -10.107 | (-19.358, -0.857) | 0.032  | -16.023 | (-28.095, -3.952) | 0.009  |
| Higher (NZDep2013 1-3) | -12.378 | (-25.714, 0.957) | 0.069  | -20.072  | (-34.704, -5.441) | 0.007  |
| Parent neighbourhood perception score | 2.243  | (0.048, 4.438) | 0.045  | 1.829  | (-0.969, 4.628) | 0.200  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -20.650  | (-30.899, -10.401) | <0.0001 | -11.568 | (-27.880, 4.743) | 0.165  |
| Always | -40.596 | (-50.794, -30.399) | <0.0001 | -24.094 | (-38.366, -9.821) | 0.001  |

Table S10: Results of GEE analyses for associations between NZ-SPACES and proportion of trips made by active modes on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | Proportion of trips made by active modes on weekdays | Proportion of trips made by active modes on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| NZ-SPACES | 3.712 | (-6.718, 14.142) | 0.485  | 7.912 | (-3.505, 19.328) | 0.174  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -4.112 | (-11.169, 2.946) | 0.254  | -4.701  | (-12.958, 3.557) | 0.265  |
| Age (years) | 6.022  | (0.731, 11.312) | 0.026  | 12.518 | (6.358, 18.677) | <0.0001 |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 9.859  | (-3.266, 22.984) | 0.141  | -1.938 | (-16.712, 12.837) | 0.797  |
| Pacific Island | 7.575  | (-2.732, 17.882) | 0.150  | -12.419  | (-24.533, -0.306) | 0.044  |
| Indian/Asian/Other ethnicity | -1.301  | (-11.691, 9.090) | 0.806  | -5.681  | (-16.827, 5.464) | 0.318  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -10.437 | (-19.796, -1.078) | 0.029  | -16.029 | (-27.887, -4.170) | 0.008  |
| Higher (NZDep2013 1-3) | -10.502  | (-23.204, 2.200) | 0.105  | -19.828 | (-34.702, -4.954) | 0.009  |
| Parent neighbourhood perception score | 2.452 | (0.262, 4.641) | 0.028  | 1.952 | (-0.762, 4.666) | 0.159  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -20.425  | (-30.625, -10.225) | <0.0001 | -11.688 | (-27.837, 4.462) | 0.156  |
| Always | -40.057  | (-50.318, -29.797) | <0.0001 | -23.601 | (-37.568, -9.634) | 0.001  |

Table S11: Results of GEE analyses for associations between distance to school and proportion of trips made by active modes on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | Proportion of trips made by active modes on weekdays | Proportion of trips made by active modes on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| Distance to school (log) | -10.454  | (-13.725, -7.183) | <0.0001 | -3.27  | (-6.419, -0.122) | 0.042  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -5.097  | (-11.522, 1.327) | 0.120  | -4.939 | (-13.116, 3.239) | 0.237  |
| Age (years) | 6.158 | (1.308, 11.008) | 0.013  | 12.056 | (5.898, 18.213) | <0.0001 |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 7.977 | (-3.902, 19.855) | 0.188  | -4.156 | (-18.831, 10.520) | 0.579  |
| Pacific Island | 6.844  | (-2.383, 16.072) | 0.146  | -13.087 | (-24.834, -1.340) | 0.029  |
| Indian/Asian/Other ethnicity | -2.265  | (-11.751, 7.221) | 0.640  | -6.458  | (-17.264, 4.347) | 0.241  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -6.361 | (-14.870, 2.148) | 0.143  | -15.376  | (-27.332, -3.421) | 0.012  |
| Higher (NZDep2013 1-3) | -3.996 | (-15.623, 7.631) | 0.501  | -16.973 | (-32.161, -1.784) | 0.029  |
| Parent neighbourhood perception score | 2.057 | (-0.075, 4.188) | 0.059  | 1.731  | (-1.037, 4.500) | 0.220  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -16.778  | (-27.352, -6.204) | 0.002  | -10.092 | (-26.927, 6.743) | 0.240  |
| Always | -33.365 | (-43.931, -22.799) | <0.0001 | -21.562 | (-36.349, -6.774) | 0.004  |

Table S12: Results of GEE analyses for associations between NDAI-C and proportion of trips made by active modes on weekdays and weekend days

|  |  |  |
| --- | --- | --- |
| Exposure variable | Proportion of trips made by active modes on weekdays | Proportion of trips made by active modes on weekend days |
| Coefficient | (95% CI) | P-value | Coefficient | (95% CI) | P-value |
| NDAI-C | 0.154  | (-0.00003, 0.309) | 0.050  | 0.051  | (-0.128, 0.230) | 0.576  |
| Sex |  |  |  |  |  |  |
| Male | Reference | Reference |
| Female | -3.527 | (-10.535, 3.480) | 0.324  | -4.351  | (-12.694, 3.993) | 0.307  |
| Age (years) | 5.381  | (0.380, 10.382) | 0.035  | 11.651  | (5.402, 17.899) | <0.0001 |
| Ethnicity |  |  |  |  |  |  |
| New Zealand European | Reference | Reference |
| Māori  | 10.882  | (-2.346, 24.110) | 0.107  | -2.899  | (-18.081, 12.282) | 0.708  |
| Pacific Island | 8.778 | (-1.471, 19.027) | 0.093  | -12.687  | (-24.927, -0.448) | 0.042  |
| Indian/Asian/Other ethnicity | -2.512  | (-12.524, 7.501) | 0.623  | -6.651 | (-17.456, 4.155) | 0.228  |
| Socioeconomic status |  |  |  |  |  |  |
| Lower (NZDep2013 8-10) | Reference | Reference |
| Mid (NZDep2013 4-7) | -8.559  | (-17.633, 0.515) | 0.064  | -15.842  | (-27.983, -3.702) | 0.011  |
| Higher (NZDep2013 1-3) | -10.768  | (-23.208, 1.671) | 0.090  | -19.755  | (-34.164, -5.347) | 0.007  |
| Parent neighbourhood perception score | 2.301  | (0.128, 4.474) | 0.038  | 1.893 | (-0.845, 4.630) | 0.175  |
| Car availability for picking up and dropping off children |  |  |  |  |  |  |
| Never | Reference | Reference |
| Sometimes | -21.244  | (-31.234, -11.254) | <0.0001 | -11.620 | (-28.134, 4.895) | 0.168  |
| Always | -39.527 | (-49.575, -29.478) | <0.0001 | -23.545 | (-37.923, -9.167) | 0.001  |