Additional file 2. Moderation analysis methods.

\[ \Delta \text{Average Steps}_{i,j} = \alpha + \beta_1 \text{Family-based} + \beta_2 \text{Moderator}_j + \beta_3 \text{Family-based} \times \text{Moderator}_j + \epsilon_{i,j} \]

We conducted moderation analysis using the equation above. Separate regressions were run for change at months 6 and 12 relative to baseline. The following moderators were independently tested: gender (1 = male; 0 = female) of child and parent, parent’s social support for physical activity as measured by PASS [1 = high social support (4-5); 0 = medium to low social support (0-3)].\(^1,2\) Where PASS ranged from 0 – 5, with higher scores reflecting high support. Family dynamics is self-reported by parents and measured using FACES IV Family Satisfaction Scale. FACES IV [1 = high family satisfaction score (40-50); 0 = moderate to low family satisfaction score (10-39)] where FACES IV raw scores ranges from 10 – 50, with higher scores reflecting higher levels of family satisfaction. Parent’s enjoyment of PA is measured by PACES [1 = high enjoyment of PA (40-56); 0 = moderate to low enjoyment of PA (0-40)]. PACES scores range from 0 – 56 with higher values reflecting greater levels of enjoyment.\(^3,4\)

References