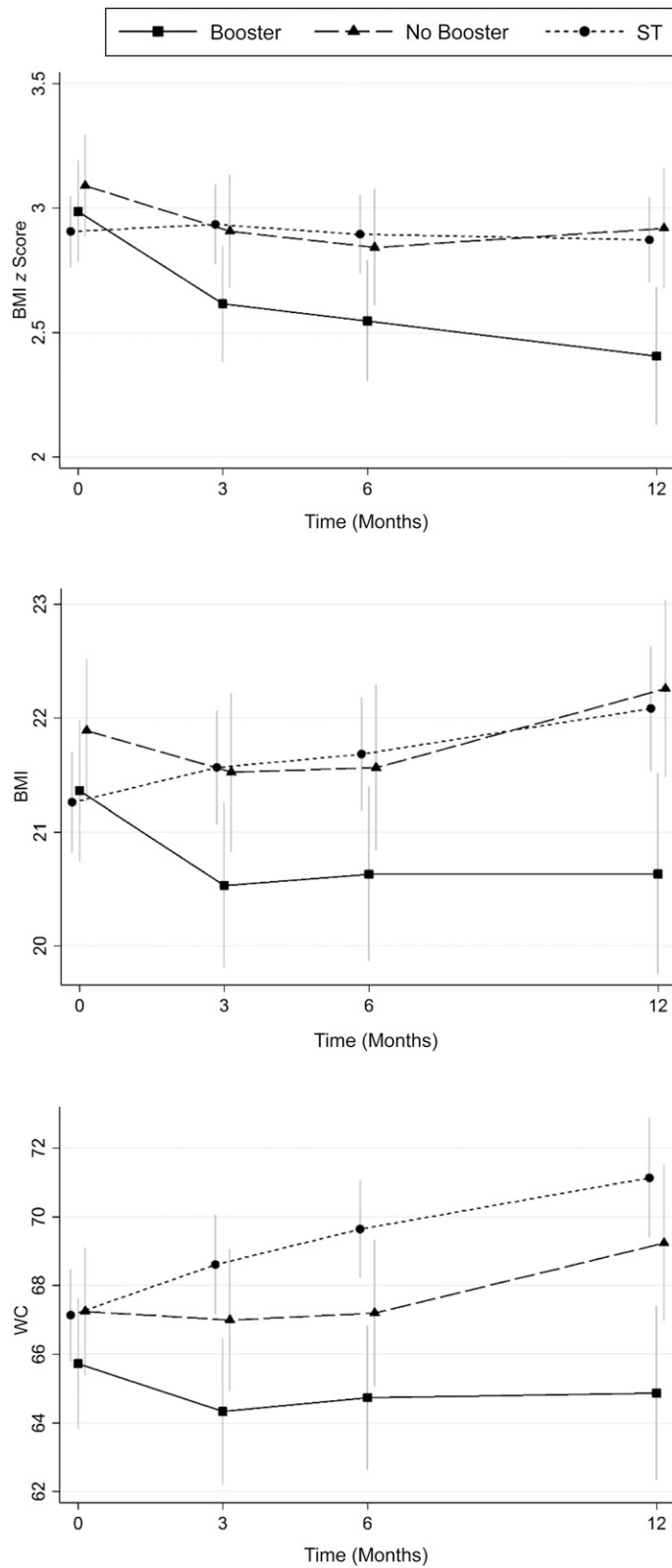


# Supplemental Information



**SUPPLEMENTAL FIGURE 4**

Sensitivity analysis with linear mixed models with time as a factor, not assuming a linear trend. Mean difference change over time in BMI z score (primary outcome) and BMI and WC (secondary outcomes) comparing the parent-only treatment (Booster and No Booster) and ST.

**SUPPLEMENTAL TABLE 3** Content Description of the ML Parent-Only Group Program

Session	Parenting	Lifestyle	Home Practice
1	Welcome and introduction: parents' key roles	Obesity treatment of preschoolers	Family activity list
2	Food and play: when more, when less?	Short cuts to a healthy lifestyle	Encouragement profile
3	Cooperation: what does it mean, why is it important, and how do we encourage it?	Portion size and energy balance	My child's strengths
4	Parents as teachers: teaching new behaviors	—	Behaviors to encourage the child to do. Food diary
5	Charts and incentives: a fun way to involve the child in the process of learning new behaviors	—	Introducing the chart to the child and trying it at home
6	Preteaching and planning: preparing the child for difficult situations to reduce conflicts	Food labeling and nutrient content	Situations to prepare the child for
7	Limit-setting strategies: why is it important and what works?	The plate model	Limit-setting strategies
8	Power struggles: how to avoid and get out of power struggles with the child	How to improve your recipes	Getting out of power struggles
9	More support, less stress: how to get support from other people in the child's network and strategies to reduce stress	What is a healthy snack meal? How to make better food choices	Persons to involve supporting a healthy lifestyle and stress management
10	Summary: parenting and balancing food and play; summarizing improvements made during the program	—	—

—, not applicable.

**SUPPLEMENTAL TABLE 4** Observed Mean Changes From Baseline in Primary and Secondary Outcomes for Parent-Only Treatment and ST

Group	Mean (95% CI)		
	3 Mo	6 Mo	12 Mo
BMI z score			
Parent-only	−0.07 (−0.11 to −0.04)**	−0.15 (−0.22 to −0.07)**	−0.30 (−0.45 to −0.15)**
ST	−0.02 (−0.05 to 0.01)	−0.03 (−0.09 to 0.03)	−0.07 (−0.19 to 0.05)
BMI			
Parent-only	0.01 (−0.11 to 0.13)	0.02 (−0.22 to 0.26)	0.04 (−0.44 to 0.52)
ST	0.18 (0.09 to 0.28)**	0.37 (0.18 to 0.56)**	0.74 (0.36 to 1.12)**
WC			
Parent-only	0.26 (−0.09 to 0.61)	0.52 (−0.18 to 1.21)	1.04 (−0.36 to 2.43)
ST	0.91 (0.60 to 1.23)**	1.82 (1.19 to 2.45)**	3.64 (2.38 to 4.91)**

Parent-only treatment (with and without booster sessions between 3 and 12 months follow-up).

\*\*  $P < .001$ .

**SUPPLEMENTAL TABLE 5** Main Effects of Treatment Group by Time on Primary and Secondary Outcomes for Parent-Only Treatment and ST

	Intercept <sup>a</sup> (SE)	Group by Time <sup>b</sup> (95% CI)	$P^c$	Time <sup>d</sup>
BMI z score	2.93 (0.05)	−0.02 (−0.03 to −0.003)	.02	−0.006
BMI	21.30 (0.15)	−0.06 (−0.11 to −0.003)	.04	−0.06
WC (cm)	66.70 (0.45)	−0.22 (−0.38 to −0.06)	.008	0.30

<sup>a</sup> Intercept (predicted value at baseline for ST).

<sup>b</sup> Interaction between group and time (months).

<sup>c</sup> The  $P$  value for difference between the groups (group by time interaction).

<sup>d</sup> Coefficient for time (months) for ST.

**SUPPLEMENTAL TABLE 6** Observed Mean Changes From Baseline in Primary and Secondary Outcomes for Booster, No Booster, and ST

Group	Mean (95% CI)		
	3 Mo	6 Mo	12 Mo
<b>BMI z score</b>			
Booster	-0.13 (-0.19 to -0.08)**	-0.27 (-0.39 to -0.15)**	-0.54 (-0.77 to -0.30)**
No Booster	-0.03 (-0.76 to 0.02)	-0.06 (-0.15 to 0.04)	-0.11 (-0.31 to 0.08)
ST	-0.01 (-0.04 to 0.02)	-0.02 (-0.09 to 0.04)	-0.04 (-0.18 to 0.09)
<b>BMI</b>			
Booster	-0.16 (-0.35 to 0.03)	-0.32 (-0.70 to 0.06)	-0.63 (-1.39 to 0.13)
No Booster	0.14 (-0.02 to 0.30)	0.28 (-0.04 to 0.60)	0.56 (-0.08 to 1.20)
ST	0.20 (0.09 to 0.30)	0.39 (0.17 to 0.61)	0.78 (0.34 to 1.22)
<b>WC (cm)</b>			
Booster	-0.27 (-0.84 to 0.29)	-0.54 (-1.67 to 0.58)	-1.09 (-3.35 to 1.17)
No Booster	0.53 (0.06 to 1.00)*	1.06 (0.12 to 2.01)*	2.12 (0.23 to 4.01)*
ST	1.01 (0.66 to 1.37)**	2.03 (1.32 to 2.74)**	4.06 (2.64 to 5.47)**

\*\*  $P < .001$ .\*  $P = .03$ .**SUPPLEMENTAL TABLE 7** The Main Effects of Treatment Group by Time on Primary (BMI z Score) and Secondary (BMI, WC) Outcomes for Booster, No Booster, and ST

	Intercept <sup>a</sup> (SE)	Booster by Time <sup>b</sup> (95% CI)	$P^c$	No Booster by Time <sup>d</sup> (95% CI)	$P^e$	Time <sup>e</sup> (95% CI)	$P^f$
BMI z score	2.93 (0.05)	-0.04 (-0.06 to -0.02)	.000	-0.01 (-0.02 to 0.01)	.551	-0.00 (-0.01 to 0.01)	.520
BMI	21.30 (0.15)	-0.12 (-0.19 to -0.04)	.002	-0.02 (-0.08 to 0.04)	.569	0.07 (0.03 to 0.10)	.001
WC (cm)	66.66 (0.45)	-0.43 (-0.65 to -0.21)	.000	-0.15 (-0.35 to 0.03)	.100	0.34 (0.22 to 0.46)	.000

<sup>a</sup> Intercept (predicted value at baseline for ST).<sup>b</sup> Interaction between parent-only Booster group and time (months). ST as reference.<sup>c</sup> The  $P$  value for difference between the groups (group by time interaction) with ST as reference group.<sup>d</sup> Interaction between the parent-only No Booster group and time (months). ST as reference.<sup>e</sup> Coefficient for time (months) for ST.<sup>f</sup> The  $P$  value for change from baseline for ST.**SUPPLEMENTAL TABLE 8** Three-Way Interactions Examining the Effects of Sociodemographic Variables on Treatment Results, BMI z Score (Primary Outcome)

	Coefficient		95% CI		$P$	
	Booster	No Booster	Booster	No Booster	Booster	No Booster
<b>Child</b>						
Age	-0.005	-0.002	-0.03 to 0.02	-0.03 to 0.02	.729	.893
Sex	0.003	0.009	-0.04 to 0.05	-0.03 to 0.05	.911	.645
First born	-0.008	-0.009	0.05 to 0.04	-0.05 to 0.03	.728	.672
Living with both parents	0.005	0.007	0.04 to 0.05	-0.05 to 0.06	.830	.790
<b>Mother</b>						
University degree	-0.030	-0.014	-0.07 to 0.01	-0.05 to 0.02	.161	.468
Income	0.002	-0.009	-0.02 to 0.03	-0.03 to 0.01	.880	.374
Foreign background	0.023	0.029	-0.02 to 0.06	-0.01 to 0.06	.253	.096
BMI	0.001	0.000	-0.00 to 0.00	-0.00 to 0.00	.521	.773
<b>Father</b>						
University degree	-0.024	0.004	-0.07 to 0.02	-0.04 to 0.05	.295	.837
Income	-0.003	0.000	-0.02 to 0.02	-0.02 to 0.02	.779	.965
Foreign background	0.011	0.049	-0.03 to 0.05	0.01 to 0.08	.548	.006*
BMI	0.002	0.000	-0.00 to 0.01	-0.00 to 0.01	.479	.885

ST and No Booster are used as reference in the regression analyses. A value of  $P < .05$  was regarded as significant.\*  $P < .05$ .

**SUPPLEMENTAL TABLE 9** Sensitivity Analysis Using  $\delta$  Adjustment on Primary Outcome

$\delta$	Estimate	95% CI
0	-0.04	-0.06 to -0.02*
0.10	-0.04	-0.06 to -0.02*
0.20	-0.03	-0.06 to -0.02*
0.30	-0.03	-0.05 to -0.01*
0.40	-0.03	-0.05 to -0.01*
0.50	-0.03	-0.05 to -0.00*
0.60	-0.02	-0.04 to -0.00*
0.70	-0.02	-0.04 to 0.00
0.80	-0.02	-0.04 to 0.01
0.90	-0.01	-0.04 to 0.01
1.00	-0.01	-0.03 to 0.01

Sensitivity analysis to investigate the possible effect of MNAR by adding a BMI z score (primary outcome) value to all imputations for the Booster group but not the other 2 groups (No Booster and ST). The effect was no longer significant when a value of 0.7 had been added.

\*  $P < .05$ .