

Supplementary content

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Supplementary Table 1. Correlations between the CEBQ traits in 411 children

CEBQ traits	Food responsiveness	Enjoyment of food	Emotional overeating	Desire to drink	Satiety responsiveness	Slowness in eating	Emotional undereating	Food fussiness
Food responsiveness	1 [reference]							
Enjoyment of food	0.40 ^a	1 [reference]						
Emotional overeating	0.56 ^a	0.09	1 [reference]					
Desire to drink	0.31 ^a	0.05	0.23 ^a	1 [reference]				
Satiety responsiveness	-0.35 ^a	-0.66 ^a	-0.1	0.03	1 [reference]			
Slowness in eating	-0.19 ^a	-0.39 ^a	-0.05	-0.08	0.49 ^a	1 [reference]		
Emotional undereating	0.08	-0.17 ^a	0.36 ^a	0.17 ^a	0.26 ^a	0.17 ^a	1 [reference]	
Food fussiness	0.08	-0.54 ^a	0.05	0.05	0.36 ^a	0.19 ^a	0.09	1 [reference]

^a $P < 0.001$

Supplementary Table 2. Associations between the food-approach appetitive traits and growth velocities^a in 149 children

Food-approach appetitive traits	Growth periods	Change in weight z-score		Change in length/height z-score		Change in BMI z-score		Change in body fat percentage z-score	
		β^b (95% CI)	<i>P</i> value	β^b (95% CI)	<i>P</i> value	β^b (95% CI)	<i>P</i> value	β^b (95% CI)	<i>P</i> value
Food responsiveness	0-3 months	0.23 (0.06, 0.41)	0.009	0.05 (-0.15, 0.25)	0.632	0.28 (0.08, 0.48)	0.005	0.44 (0.23, 0.65)	5×10^{-5}
	3-24 months	0.11 (-0.08, 0.3)	0.242	0.16 (-0.05, 0.36)	0.133	0.11 (-0.09, 0.3)	0.272	0.32 (0.12, 0.51)	0.002
	24 months to childhood	0.22 (0.04, 0.39)	0.015	0.13 (-0.07, 0.33)	0.204	0.18 (0.03, 0.32)	0.021	0.26 (0.12, 0.39)	3×10^{-4}
Enjoyment of food	0-3 months	0.15 (-0.01, 0.31)	0.064	-0.05 (-0.22, 0.13)	0.605	0.23 (0.05, 0.41)	0.013	0.26 (0.07, 0.45)	0.009
	3-24 months	0.06 (-0.11, 0.24)	0.468	0.04 (-0.14, 0.22)	0.66	0.14 (-0.03, 0.32)	0.111	0.16 (-0.02, 0.35)	0.081
	24 months to childhood	0.18 (0.02, 0.33)	0.03	0.11 (-0.07, 0.28)	0.241	0.14 (0.01, 0.28)	0.037	0.15 (0.02, 0.27)	0.024
Emotional overeating	0-3 months	0.16 (0.01, 0.3)	0.034	0.13 (-0.03, 0.3)	0.100	0.16 (-0.01, 0.33)	0.061	0.25 (0.08, 0.43)	0.005
	3-24 months	0.12 (-0.03, 0.28)	0.123	0.12 (-0.04, 0.29)	0.145	0.1 (-0.07, 0.26)	0.248	0.21 (0.05, 0.38)	0.013
	24 months to childhood	0.17 (0.03, 0.31)	0.021	0.15 (-0.01, 0.32)	0.067	0.12 (0, 0.24)	0.053	0.21 (0.1, 0.32)	3×10^{-4}
Desire to drink	0-3 months	0.11 (-0.04, 0.26)	0.144	0.14 (-0.02, 0.31)	0.086	0.17 (0.01, 0.34)	0.043	0.13 (-0.04, 0.31)	0.139
	3-24 months	0.02 (-0.14, 0.19)	0.792	0.09 (-0.07, 0.26)	0.274	0.01 (-0.15, 0.18)	0.865	0.06 (-0.11, 0.22)	0.498
	24 months to childhood	0.02 (-0.13, 0.17)	0.752	0.09 (-0.08, 0.25)	0.310	0.05 (-0.08, 0.17)	0.474	0.02 (-0.1, 0.13)	0.772

Abbreviations: BMI, body mass index.

^a Models were adjusted for sex, age at CEBQ, and birth measurements (weight, length/height, BMI, or body fat percentage).

^b The β coefficients are derived individual-level growth velocities (change in z-score per month).

Supplementary Table 3. Associations between the food-avoidant appetitive traits and growth velocities^a in 149 children

Food-avoidant appetitive traits	Growth periods	Change in weight z-score		Change in length/height z-score		Change in BMI z-score		Change in body fat percentage z-score	
		β^b (95% CI)	<i>P</i> value	β^b (95% CI)	<i>P</i> value	β^b (95% CI)	<i>P</i> value	β^b (95% CI)	<i>P</i> value
Satiety responsiveness	0-3 months	-0.24 (-0.39, -0.09)	0.002	-0.06 (-0.22, 0.11)	0.486	-0.22 (-0.39, -0.05)	0.013	-0.24 (-0.43, -0.06)	0.012
	3-24 months	-0.25 (-0.41, -0.09)	0.002	-0.24 (-0.41, -0.08)	0.004	-0.2 (-0.37, -0.03)	0.019	-0.18 (-0.35, 0)	0.054
	24 months to childhood	-0.34 (-0.49, -0.2)	8×10 ⁻⁶	-0.27 (-0.44, -0.11)	0.002	-0.25 (-0.38, -0.12)	2×10 ⁻⁴	-0.2 (-0.32, -0.08)	0.002
Slowness in eating	0-3 months	-0.06 (-0.24, 0.11)	0.465	0.02 (-0.17, 0.2)	0.862	-0.06 (-0.26, 0.13)	0.517	-0.11 (-0.32, 0.1)	0.315
	3-24 months	-0.02 (-0.21, 0.16)	0.808	-0.08 (-0.27, 0.11)	0.397	0.03 (-0.16, 0.22)	0.785	0 (-0.2, 0.2)	0.997
	24 months to childhood	-0.16 (-0.33, 0.02)	0.075	-0.11 (-0.3, 0.08)	0.256	-0.11 (-0.25, 0.04)	0.15	-0.1 (-0.24, 0.04)	0.147
Emotional undereating	0-3 months	0.1 (-0.07, 0.27)	0.25	0.15 (-0.03, 0.33)	0.097	-0.07 (-0.26, 0.12)	0.49	-0.04 (-0.24, 0.17)	0.732
	3-24 months	0.08 (-0.1, 0.26)	0.391	0.13 (-0.05, 0.32)	0.162	-0.04 (-0.23, 0.15)	0.65	0.01 (-0.19, 0.2)	0.935
	24 months to childhood	0.07 (-0.09, 0.24)	0.396	0.04 (-0.14, 0.22)	0.68	0.02 (-0.13, 0.16)	0.831	0.03 (-0.11, 0.16)	0.689
Food fussiness	0-3 months	-0.07 (-0.28, 0.14)	0.513	-0.03 (-0.25, 0.2)	0.823	0.01 (-0.23, 0.25)	0.947	0.04 (-0.22, 0.29)	0.788
	3-24 months	0 (-0.23, 0.22)	0.968	-0.05 (-0.28, 0.18)	0.675	0 (-0.23, 0.24)	0.969	0.04 (-0.2, 0.28)	0.747
	24 months to childhood	-0.13 (-0.33, 0.08)	0.219	-0.19 (-0.42, 0.04)	0.113	-0.03 (-0.21, 0.15)	0.739	-0.03 (-0.2, 0.14)	0.735

Abbreviations: BMI, body mass index.

^a Models were adjusted for sex, age at CEBQ, and birth measurements (weight, length/height, BMI, or body fat percentage).

^b The β coefficients are derived individual-level growth velocities (change in z-score per month).