

Table S4. BMI and chronic stress level as predictor of stress response and food parameters after Trier Social Stress Test induction.

		Separate model		Model with both predictors	
		BMI z-score	Chronic stress z-score	BMI z-score	Chronic stress z-score
% Salivary alpha-amylase reactivity	β	-0.044	0.035	-0.047	0.041
	p	0.638	0.713	0.616	0.671
% Salivary alpha-amylase recovery	β	0.034	0.043	0.032	0.039
	p	0.715	0.657	0.730	0.691
AUCi Salivary alpha-amylase	β	0.146	-0.006	0.151	-0.025
	p	0.113	0.947	0.107	0.794
% Salivary cortisol reactivity	β	0.171	0.031	0.166	0.014
	p	0.086	0.770	0.100	0.891
% Salivary cortisol recovery	β	0.099	0.072	0.096	0.065
	p	0.325	0.491	0.344	0.535
AUCi Salivary cortisol	β	-0.021	-0.051	-0.015	-0.049
	p	0.821	0.607	0.878	0.626
% Stress increase	β	0.079	-0.005	0.083	-0.015
	p	0.385	0.962	0.153	0.897
% Stress recovery	β	-0.031	0.151	-0.047	0.157
	p	0.737	0.116	0.617	0.107
AUCi Stress	β	-0.169	0.015	-0.169	0.036
	p	0.062	0.875	0.065	0.706
% Negative emotions reactivity	β	0.077	0.072	0.072	0.064
	p	0.403	0.452	0.442	0.513
% Negative emotions recovery	β	-0.004	0.126	-0.017	0.128
	p	0.965	0.187	0.855	0.185
AUCi Negative emotions	β	-0.015	-0.027	-0.012	-0.026
	p	0.874	0.779	0.902	0.792
% Happy reactivity	β	0.087	-0.037	0.091	-0.048
	p	0.343	0.698	0.324	0.616
% Happy recovery	β	0.114	0.117	0.101	0.104
	p	0.218	0.224	0.277	0.280
AUCi happy	β	-0.033	-0.030	-0.026	-0.027
	p	0.726	0.759	0.783	0.786
% Stress index reactivity	β	0.020	0.116	0.017	0.115
	p	0.835	0.233	0.863	0.241
% Stress index recovery	β	-0.041	0.068	-0.036	0.071
	p	0.662	0.478	0.708	0.465
AUCi Stress index	β	0.040	0.100	0.056	0.096
	p	0.661	0.285	0.545	0.306
% RMSSD reactivity	β	-0.052	0.008	-0.052	0.011
	p	0.585	0.938	0.590	0.911
% RMSSD recovery	β	0.024	0.001	0.023	-0.001
	p	0.801	0.992	0.814	0.996
AUCi RMSSD	β	0.048	-0.104	0.053	-0.107
	p	0.600	0.267	0.563	0.254
Increase in hunger	β	-0.035	0.055	-0.041	0.060
	p	0.727	0.574	0.684	0.543
Increase in wanting	β	0.056	0.004	0.056	-0.003
	p	0.566	0.969	0.571	0.972
Trait emotional eating	β	-0.105	0.213	-0.136	0.164
	p	0.288	0.024	0.230	0.016
Food intake (kcal)	β	0.060	0.024	0.051	0.018
	p	0.536	0.794	0.605	0.849
Energy density intake (kcal/g)	β	-0.105	0.102	-0.123	0.118
	p	0.270	0.267	0.199	0.204

HFSW intake (kcal)	β	0.247	0.165	0.223	0.137
	p	0.011	0.080	0.022	0.141
LFSW intake (kcal)	β	0.078	-0.016	0.072	-0.025
	p	0.428	0.865	0.466	0.792
HFSA intake (kcal)	β	-0.125	-0.101	-0.114	-0.081
	p	0.211	0.314	0.266	0.426
LFSA intake (kcal)	β	-0.130	0.001	-0.134	0.020
	p	0.215	0.989	0.210	0.849

Results are given for the separate models including chronic stress z-score or BMI z-score, and for the combined model. B: standardized regression coefficients from linear regression adjusted for age, sex and parental education. Wanting and snack buffet intake analyses were additionally adjusted for hunger at study start and liking of presented snacks. AUCi: area under the curve with respect to increase; RMSSD: Root Mean Square of the Successive Differences HF: high fat; LF: low fat; SW: sweet; SA: savoury.