

## Supplementary information

**Table S1**

Component loadings of food avoidance at T1 on principal components

	PC-caloric	PC-animal	PC-produce
Butter	0.74248	0.07192	-0.18319
Starchy foods	0.53053	0.39361	0.30646
Fries	0.65886	0.07053	-0.17651
Cheese	0.50484	0.15960	0.02711
Pastries	0.74884	0.04063	-0.01044
Cold meats	0.62821	0.16305	-0.23682
Ham	0.23015	0.69641	0.01444
Red meat	0.25967	0.75917	-0.00838
White meat	0.05148	0.86431	-0.02049
White fish	-0.00888	0.58036	0.36411
0% fat dairy produce	-0.20401	-0.01948	0.28878
Green vegetables	-0.03246	-0.01435	0.80784
Tomatoes	0.04997	-0.00141	0.76142
Fresh fruits	-0.06079	0.20134	0.61626
Dried fruits	0.57902	0.07471	0.22970
Whole wheat bread	0.48238	0.19317	0.46406

Cells are greyed out when component loadings are higher than 0.5

**Table S2**

Clinical characteristics of 130 patients with anorexia nervosa seen four months apart.

Clinical characteristics	At baseline			After 4 months of treatment			Statistics		
	Mean	SD	%	Mean	SD	%	χ <sup>2</sup>	Wilcoxon	p
PC-caloric factor score	5.96	2.42		5.49	2.23			5750	<b>&lt;0.001</b>
PC-animal factor score	3.21	1.88		2.75	1.91			5730	<b>&lt;0.001</b>
PC-produce factor score	0.57	1.24		0.40	1.29			5510	<b>0.004</b>
Actual BMI	15.31	1.89		16.40	2.31			954	<b>&lt;0.001</b>
Perceived BMI	19.64	3.09		20.58	3.12			1257	<b>&lt;0.001</b>
Perceptual distortion	1.29	0.21		1.27	0.21			4543	0.136
EAT Total	35.06	16.50		26.62	17.31			6382	<b>&lt;0.001</b>
EAT Dieting	18.62	10.39		14.28	10.27			5650	<b>&lt;0.001</b>
EAT Bulimia	7.82	4.51		6.13	4.97			3950	<b>&lt;0.001</b>
EAT Oral	8.62	4.90		6.21	4.74			5385	<b>&lt;0.001</b>
HADS anxiety score	13.29	4.13		11.67	4.67			5093	<b>&lt;0.001</b>
HADS anxiety syndrome			88.5%			78.5%	10.1		<b>0.001</b>
HADS depression score	9.05	3.74		7.48	4.02			5249	<b>&lt;0.001</b>
HADS depression syndrome			63.1%			46.9%	12.0		<b>&lt;0.001</b>
PANAS positive	29.25	6.84		30.62	6.95			2779	<b>0.013</b>
PANAS negative	35.99	7.90		32.43	9.43			5843	<b>&lt;0.001</b>
WSAS	23.43	8.21		19.32	10.45			5368	<b>&lt;0.001</b>

BMI: body mass index; EAT: eating attitudes test-26; HADS: hospital anxiety and depressive scale; p: p-value; PANAS: positive and negative affect schedule; PC: principal component; SD: standard deviation; WSAS: work and social adjustment scale; χ<sup>2</sup>: chi-squared test. Bold numbers indicate significant p-values (p<0.05).

**Table S3. Analyses performed separately in adolescents (age ≤ 20) and in adults (age > 20)****Table S3.1. Clinical characteristics of patients with anorexia nervosa at baseline and after 4 months of treatment, described for the whole sample (N=130), and separately for adolescents (age≤20, N=54) and adults (age>20, N=76).**

Clinical characteristics	At baseline			After 4 months of treatment			Statistics		
	Mean	SD	%	Mean	SD	%	χ <sup>2</sup>	Wilcoxon	p
PC-caloric factor score	5.96	2.42		5.49	2.23			5750	<b>&lt;0.001</b>
Adolescents	6.19	2.41		5.62	2.36			1050	<b>0.008</b>
Adults	5.79	2.43		5.39	2.15			1926	<b>0.017</b>
PC-animal factor score	3.21	1.88		2.75	1.91			5730	<b>1</b>
Adolescents	3.39	1.84		2.90	2.03			1072	<b>0.005</b>
Adults	3.08	1.91		2.65	1.82			1866	<b>0.037</b>
PC-produce factor score	0.57	1.24		0.40	1.29			5510	<b>0.004</b>
Adolescents	0.49	1.24		0.47	1.40			835	0.428
Adults	0.62	1.25		0.35	1.22			2063	<b>0.002</b>
Actual BMI	15.3								<b>&lt;0.001</b>
Adolescents	15.0	1.89		16.40	2.31			954	<b>1</b>
Adults	15.4	1.78		16.24	2.27			125	<b>&lt;0.001</b>
Perceived BMI	19.6								<b>&lt;0.001</b>
Adolescents	19.7	3.09		20.58	3.12			417	<b>1</b>
Adults	19.5	3.18		20.97	3.14			1257	<b>&lt;0.001</b>
Perceptual distortion	1.29	0.21		1.27	0.21			498	<b>0.014</b>
Adolescents	1.31	0.20		1.30	0.20			4543	0.136
Adults	1.27	0.21		1.24	0.20			795	0.339
EAT Total	35.0	16.5						1562	0.246
Adolescents	35.3	17.3		26.62	17.31			6382	<b>1</b>
Adults	34.9	15.9		27.43	18.14			1038	<b>&lt;0.001</b>
EAT Dieting	18.6	10.3							<b>&lt;0.001</b>
Adolescents	20.2	10.9		14.28	10.27			2291	<b>1</b>
Adults	17.4	9.91		15.76	10.99			5650	<b>&lt;0.001</b>
EAT Bulimia	7.82	4.51							<b>&lt;0.001</b>
Adolescents	7.06	3.85		6.13	4.97			3950	<b>1</b>
Adults	8.37	4.88		5.98	4.43			576	0.060
EAT Oral	8.62	4.90							<b>&lt;0.001</b>
Adolescents	7.98	5.05		6.24	5.34			1525	<b>1</b>
Adults	9.07	4.77		6.21	4.74			5385	<b>&lt;0.001</b>
HADS anxiety score	13.2								<b>&lt;0.001</b>
Adolescents	9	4.13		11.67	4.67			5093	<b>1</b>

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	13.4								
Adolescents	6	4.47		12.02	5.04			898	<b>0.004</b>
	13.1								<b>&lt;0.00</b>
Adults	7	3.90		11.42	4.40			1736	<b>1</b>
			88.5				10.		
HADS anxiety syndrome			%			78.5%	1		<b>0.001</b>
			85.2				7.5		
Adolescents			%			75.9%	9		<b>0.006</b>
			90.8						
Adults			%			80.3%	2.6		0.107
									<b>&lt;0.00</b>
HADS depression score	9.05	3.74		7.48	4.02			5249	<b>1</b>
Adolescents	9.04	3.94		7.63	4.19			841	<b>0.023</b>
									<b>&lt;0.00</b>
Adults	9.05	3.61		7.37	3.92			1912	<b>1</b>
			63.1						<b>&lt;0.00</b>
HADS depression syndrome			%			46.9%	12		<b>1</b>
			68.5				10.		
Adolescents			%			50.0%	4		<b>0.001</b>
			59.2						
Adults			%			44.7%	3.3		0.069
	29.2								
PANAS positive	5	6.84		30.62	6.95			2779	<b>0.013</b>
	27.5								
Adolescents	0	6.54		29.93	6.67			339	<b>0.004</b>
	30.5								
Adults	0	6.81		31.11	7.14			1186	0.472
	35.9								<b>&lt;0.00</b>
PANAS negative	9	7.90		32.43	9.43			5843	<b>1</b>
	35.8								<b>&lt;0.00</b>
Adolescents	9	8.50		32.17	10.28			1058	<b>1</b>
	36.0								<b>&lt;0.00</b>
Adults	7	7.50		32.62	8.83			1953	<b>1</b>
	23.4								<b>&lt;0.00</b>
WSAS	3	8.21		19.32	10.45			5368	<b>1</b>
	22.9								<b>&lt;0.00</b>
Adolescents	4	8.57		17.76	10.35			1058	<b>1</b>
	23.7								
Adults	9	7.98		20.44	10.44			1701	<b>0.016</b>

BMI: body mass index; EAT: eating attitudes test-26; HADS: hospital anxiety and depressive scale; p: p-value; PANAS: positive and negative affect schedule; PC: principal component; SD: standard deviation; WSAS: work and social adjustment scale;  $\chi^2$ : chi-squared test. Bold numbers indicate significant p-values ( $p < 0.05$ ).

**Table S3.2. Factors correlated to, or associated with, factor scores of food avoidance in 130 patients with anorexia nervosa at baseline (analysis by age corresponding to Table 1).**

PC-caloric avoidance factor score at T1

Patients' characteristics	Whole sample			Adolescents			Adults		
	r	U	p	r	U	p	r	U	p
Age	-0.106		0.229	0.173		0.212	-0.121		0.297
Education		1789	0.308		246	0.910		598	0.283
Working		1003	0.837		35	0.442		546	0.905
Familial history of ED		1432	0.187		227	0.506		515	0.273
Subtype		2010	0.772		340	0.916		695	0.820
Age at onset	-0.105		0.234	0.197		0.153	-0.166		0.152
Illness duration	-0.068		0.444	-0.017		0.902	-0.041		0.723
Current BMI	0.008		0.925	0.094		0.498	-0.032		0.787
Minimum lifetime BMI	0.308		<b>&lt;.001</b>	0.395		<b>0.004</b>	0.254		<b>0.043</b>

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Maximum lifetime BMI	0.120	0.201	0.273	0.052	0.052	0.686	
BMI max-current	0.104	0.270	0.209	0.141	0.054	0.672	
BMI current-min	-0.286	<b>0.002</b>	-0.286	<b>0.042</b>	-0.289	<b>0.021</b>	
BMI max-min	-0.037	0.696	0.076	0.598	-0.088	0.489	
Perceived BMI	0.226	<b>0.010</b>	0.395	<b>0.003</b>	0.100	0.388	
Perceptual distortion	0.232	<b>0.008</b>	0.353	<b>0.009</b>	0.143	0.219	
Subjective ideal BMI	-0.092	0.321	0.100	0.508	-0.170	0.151	
EAT Total	0.520	<b>&lt;.001</b>	0.596	<b>&lt;.001</b>	0.464	<b>&lt;.001</b>	
EAT Dieting	0.557	<b>&lt;.001</b>	0.650	<b>&lt;.001</b>	0.479	<b>&lt;.001</b>	
EAT Bulimia	0.266	<b>0.002</b>	0.426	<b>0.001</b>	0.205	0.076	
EAT Oral	0.325	<b>&lt;.001</b>	0.322	<b>0.017</b>	0.347	<b>0.002</b>	
HADS anxiety score	0.230	<b>0.008</b>	0.456	<b>&lt;.001</b>	0.046	0.691	
HADS anxiety syndrome		653	0.128	75	<b>0.006</b>	218	0.680
HADS depression score	0.100		0.258	0.279	<b>0.041</b>	-0.036	0.758
HADS depression syndrome		1536	<b>0.037</b>	206	<b>0.043</b>	612	0.371
PANAS positive	0.005		0.953	0.070	0.617	-0.008	0.948
PANAS negative	0.211		<b>0.016</b>	0.359	<b>0.008</b>	0.098	0.400
WSAS	0.165		0.061	0.301	<b>0.027</b>	0.070	0.545

PC-animal avoidance factor score at T1

Patients' characteristics	Whole sample			Adolescents			Adults		
	r	U	p	r	U	p	r	U	p
Age	-0.124		0.159	0.077		0.578	-0.135		0.243
Education		1633	0.077		233	0.704		558	0.134
Working		1016	0.911		33	0.377		539	0.838
Familial history of ED		1536	0.440		248	0.814		527	0.337
Subtype		2064	0.972		287	0.298		664	0.583
Age at onset	-0.173		<b>0.049</b>	-0.097		0.486	-0.183		0.114
Illness duration	-0.053		0.546	0.183		0.184	-0.048		0.683
Current BMI	-0.007		0.939	0.140		0.312	-0.083		0.475
Minimum lifetime BMI	0.251		<b>0.007</b>	0.338		<b>0.015</b>	0.198		0.116
Maximum lifetime BMI	0.022		0.818	0.051		0.722	0.026		0.837
BMI max-current	0.002		0.983	-0.059		0.682	0.057		0.656
BMI current-min	-0.231		<b>0.013</b>	-0.134		0.349	-0.286		<b>0.022</b>
BMI max-min	-0.108		0.252	-0.121		0.396	-0.084		0.511
Perceived BMI	0.263		<b>0.003</b>	0.481		<b>&lt;.001</b>	0.106		0.362
Perceptual distortion	0.275		<b>0.002</b>	0.401		<b>0.003</b>	0.185		0.109
Subjective ideal BMI	-0.253		<b>0.006</b>	-0.163		0.280	-0.283		<b>0.015</b>
EAT Total	0.408		<b>&lt;.001</b>	0.531		<b>&lt;.001</b>	0.318		<b>0.005</b>
EAT Dieting	0.441		<b>&lt;.001</b>	0.599		<b>&lt;.001</b>	0.315		<b>0.006</b>
EAT Bulimia	0.191		<b>0.029</b>	0.343		<b>0.011</b>	0.134		0.249
EAT Oral	0.260		<b>0.003</b>	0.272		<b>0.047</b>	0.272		<b>0.017</b>
HADS anxiety score	0.285		<b>0.001</b>	0.398		<b>0.003</b>	0.196		0.090
HADS anxiety syndrome		692	0.215		116	<b>0.101</b>		232	0.872
HADS depression score	0.172		0.051	0.349		<b>0.010</b>	0.042		0.716
HADS depression syndrome		1579	0.061		185	<b>0.015</b>		658	0.682
PANAS positive	-0.128		0.148	-0.242		0.078	-0.029		0.803
PANAS negative	0.245		<b>0.005</b>	0.260		0.058	0.238		<b>0.038</b>
WSAS	0.081		0.359	0.213		0.122	-0.008		0.946

PC-vegetal avoidance factor score at T1

Patients' characteristics	Whole sample			Adolescents			Adults		
	r	U	p	r	U	p	r	U	p
Age	0.089		0.316	-0.191		0.167	0.124		0.285
Education		1861	0.500		205	0.338		660	0.677
Working		961	0.610		38	0.549		547	0.914

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Familial history of ED	1680	0.987	213	0.341	535	0.385
Subtype	1516	<b>0.009</b>	282	0.259	480	<b>0.013</b>
Age at onset	-0.008	0.927	-0.051	0.714	-0.029	0.805
Illness duration	0.105	0.233	-0.154	0.268	0.144	0.215
Current BMI	0.092	0.295	0.030	0.828	0.124	0.286
Minimum lifetime BMI	0.195	<b>0.037</b>	0.071	0.620	0.294	<b>0.018</b>
Maximum lifetime BMI	0.077	0.410	0.012	0.934	0.112	0.376
BMI max-current	0.042	0.652	0.008	0.955	0.056	0.659
BMI current-min	-0.131	0.162	-0.070	0.626	-0.207	0.100
BMI max-min	-0.022	0.816	-0.024	0.865	-0.046	0.718
Perceived BMI	0.028	0.753	0.010	0.941	0.043	0.713
Perceptual distortion	-0.047	0.594	-0.013	0.928	-0.062	0.593
Subjective ideal BMI	-0.053	0.565	-0.267	0.072	0.038	0.753
EAT Total	0.263	<b>0.003</b>	0.240	0.081	0.282	<b>0.014</b>
EAT Dieting	0.230	<b>0.008</b>	0.229	0.096	0.249	<b>0.030</b>
EAT Bulimia	0.190	<b>0.031</b>	0.089	0.521	0.239	<b>0.038</b>
EAT Oral	0.221	<b>0.011</b>	0.263	0.054	0.183	0.113
HADS anxiety score	0.213	<b>0.015</b>	0.141	0.308	0.276	<b>0.016</b>
HADS anxiety syndrome	827	0.799	137	0.263	168	0.190
HADS depression score	0.089	0.314	0.049	0.727	0.120	0.302
HADS depression syndrome	1776	0.356	274	0.460	632	0.494
PANAS positive	-0.030	0.734	-0.130	0.347	0.017	0.882
PANAS negative	0.197	<b>0.025</b>	0.147	0.288	0.236	<b>0.040</b>
WSAS	0.137	0.120	0.044	0.750	0.204	0.078

**Table S3.3. Predicting factors of food avoidance (analysis by age corresponding to Table 2).**

PC-caloric avoidance factor score at T2

Patients' characteristics at T1	Whole sample			Adolescents			Adults		
	r	U	p	r	U	p	r	U	p
Age	-0.088		0.321	-0.047		0.738	-0.091		0.435
Education		1957	0.829		225	0.586		655	0.638
Working		1030	0.991		36	0.476		554	0.981
Familial history of ED		1622	0.748		233	0.588		597	0.869
Subtype		1773	0.160		299	0.408		595	0.205
Age at onset	-0.263		<b>0.003</b>	-0.193		0.161	-0.321		<b>0.005</b>
Illness duration	0.034		0.700	0.149		0.281	0.069		0.554
Current BMI	0.014		0.879	0.172		0.212	-0.089		0.446
Minimum lifetime BMI	0.144		0.126	0.268		0.057	0.06		0.64
Maximum lifetime BMI	0.159		0.089	0.192		0.177	0.17		0.179
BMI max-current	0.151		0.107	0.066		0.643	0.236		0.06
BMI current-min	-0.118		0.209	-0.019		0.897	-0.177		0.161
BMI max-min	0.088		0.351	0.058		0.687	0.147		0.248
Perceived BMI	0.257		<b>0.003</b>	0.479		<.001	0.076		0.516
Perceptual distortion	0.241		<b>0.006</b>	0.374		<b>0.005</b>	0.138		0.233
Subjective ideal BMI	-0.193		0.036	-0.11		0.467	-0.239		<b>0.041</b>
EAT Total	0.434		<.001	0.394		<b>0.003</b>	0.467		<.001
EAT Dieting	0.465		<.001	0.454		<.001	0.471		<.001
EAT Bulimia	0.242		<b>0.006</b>	0.259		0.059	0.253		<b>0.027</b>
EAT Oral	0.250		<b>0.004</b>	0.177		0.200	0.324		<b>0.004</b>
HADS anxiety score	0.281		<b>0.001</b>	0.309		<b>0.023</b>	0.255		<b>0.026</b>
HADS anxiety syndrome		622	0.080		118	0.112		206	0.53
HADS depression score	0.098		0.266	0.159		0.252	0.048		0.683
HADS depression syndrome		1605	0.080		244	0.194		589	0.255
PANAS positive	-0.075		0.394	-0.129		0.351	-0.019		0.872
PANAS negative	0.276		<b>0.001</b>	0.187		0.177	0.356		<b>0.002</b>

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WSAS	0.212	<b>0.016</b>	0.246	0.073	0.188	0.104			
PC-animal avoidance factor score at T2									
Patients' characteristics at T1	Whole sample			Adolescents			Adults		
	r	U	p	r	U	p	r	U	p
Age	-0.097		0.273	-0.065		0.639	-0.091		0.437
Education		1924	0.708		224	0.572			
Working		1011	0.882		32	0.347			
Familial history of ED		1527	0.412		249	0.830			
Subtype		1740	0.119		299	0.408			
Age at onset	-0.308		<b>&lt;.001</b>	-0.254		0.063	-0.366		<b>0.001</b>
Illness duration	0.047		0.598	0.192		0.164	0.092		0.427
Current BMI	-0.008		0.932	0.233		0.090	-0.168		0.148
Minimum lifetime BMI	0.124		0.186	0.371		<b>0.007</b>	-0.04		0.754
Maximum lifetime BMI	-0.050		0.596	-0.018		0.901	-0.056		0.661
BMI max-current	-0.070		0.456	-0.191		0.179	0.028		0.823
BMI current-min	-0.101		0.281	-0.037		0.794	-0.133		0.296
BMI max-min	-0.115		0.222	-0.209		0.142	-0.037		0.773
Perceived BMI	0.209		<b>0.017</b>	0.483		<b>&lt;.001</b>	-0.02		0.865
Perceptual distortion	0.220		<b>0.012</b>	0.339		<b>0.012</b>	0.126		0.279
Subjective ideal BMI	-0.243		<b>0.008</b>	-0.189		0.207	-0.279		<b>0.017</b>
EAT Total	0.263		<b>0.002</b>	0.349		<b>0.010</b>	0.189		0.102
EAT Dieting	0.282		<b>0.001</b>	0.406		<b>0.002</b>	0.163		0.159
EAT Bulimia	0.172		0.050	0.182		0.187	0.189		0.101
EAT Oral	0.130		0.142	0.183		0.185	0.1		0.391
HADS anxiety score	0.211		<b>0.016</b>	0.165		0.233	0.249		<b>0.03</b>
HADS anxiety syndrome		856	0.965		176	0.858		218	0.68
HADS depression score	0.141		0.109	0.2		0.147	0.091		0.432
HADS depression syndrome		1693	0.185		262	0.336		620	0.418
PANAS positive	-0.217		<b>0.013</b>	-0.372		<b>0.006</b>	-0.085		0.465
PANAS negative	0.140		0.112	0.02		0.886	0.249		<b>0.03</b>
WSAS	0.095		0.282	0.141		0.309	0.062		0.593

PC-vegetal avoidance factor score at T2

Patients' characteristics at T1	Whole sample			Adolescents			Adults		
	r	U	p	r	U	p	r	U	p
Age	0.049		0.581	-0.284		0.037	0.187		0.105
Education		1659	0.100		204	0.327			
Working		911	0.383		18	0.077			
Familial history of ED		1387	0.120		223	0.455			
Subtype		1648	0.046		283	0.266			
Age at onset	-0.070		0.426	-0.276		<b>0.043</b>	0.011		0.926
Illness duration	0.092		0.299	-0.022		0.875	0.189		0.102
Current BMI	0.082		0.352	0.086		0.538	0.092		0.432
Minimum lifetime BMI	0.162		0.083	0.025		0.860	0.253		<b>0.043</b>
Maximum lifetime BMI	-0.014		0.879	-0.178		0.211	0.114		0.37
BMI max-current	-0.052		0.579	-0.226		0.110	0.085		0.506
BMI current-min	-0.103		0.274	0.068		0.637	-0.215		0.088
BMI max-min	-0.098		0.295	-0.195		0.171	-0.022		0.865
Perceived BMI	-0.009		0.915	0.077		0.580	-0.085		0.465
Perceptual distortion	-0.065		0.462	0.028		0.842	-0.145		0.21
Subjective ideal BMI	-0.005		0.955	-0.147		0.329	0.04		0.735
EAT Total	0.091		0.303	-0.075		0.590	0.237		<b>0.039</b>
EAT Dieting	0.084		0.342	-0.032		0.819	0.177		0.127
EAT Bulimia	0.096		0.278	-0.234		0.089	0.323		<b>0.004</b>
EAT Oral	0.040		0.652	-0.011		0.936	0.095		0.416

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HADS anxiety score	-0.013	0.884	-0.085	0.540	0.051	0.663
HADS anxiety syndrome	827	0.799	167	0.693	230	0.843
HADS depression score	0.119	0.179	-0.013	0.924	0.236	<b>0.04</b>
HADS depression syndrome	1594	0.072	278	0.506	545	0.108
PANAS positive	-0.146	0.098	-0.209	0.129	-0.085	0.467
PANAS negative	-0.119	0.178	-0.219	0.111	-0.026	0.824
WSAS	0.042	0.635	-0.123	0.374	0.192	0.097

**Table S3.4. Clinical characteristics covarying with factor scores of food avoidance between two visits of 130 patients with anorexia nervosa (analysis by age corresponding to Table 3).**

Patients' characteristics (T2-T1)	PC-caloric avoidance factor score difference (T2-T1)								
	Whole sample			Adolescents			Adults		
	r	U	p	r	U	p	r	U	p
Age	0.028		0.754	-0.25		0.068	0.043		0.712
Current BMI	-0.227		<b>0.009</b>	-0.292		<b>0.032</b>	-0.192		0.097
Perceived BMI	0.075		0.396	0.073		0.601	0.084		0.472
Perceptual distortion	0.252		<b>0.004</b>	0.268		<b>0.050</b>	0.248		<b>0.031</b>
EAT Total	0.383		<b>&lt;.001</b>	0.53		<b>&lt;.001</b>	0.279		<b>0.015</b>
EAT Dieting	0.418		<b>&lt;.001</b>	0.555		<b>&lt;.001</b>	0.317		<b>0.005</b>
EAT Bulimia	0.255		<b>0.003</b>	0.313		<b>0.021</b>	0.233		<b>0.043</b>
EAT Oral	0.198		<b>0.024</b>	0.382		<b>0.004</b>	0.067		0.564
HADS anxiety score	0.161		0.067	0.427		<b>0.001</b>	-0.025		0.828
Anxiety remission		826	0.078		128	0.180		302	0.246
HADS depression score	0.182		<b>0.039</b>	0.351		<b>0.009</b>	0.08		0.494
Depression remission		1150	<b>0.011</b>		125	<b>0.003</b>		499	0.365
PANAS positive	-0.042		0.633	-0.101		0.470	0		0.997
PANAS negative	0.131		0.137	0.287		<b>0.035</b>	0.042		0.718
WSAS	0.071		0.424	0.179		0.194	0.002		0.987
Delay between visits	0.024		0.784	-0.057		0.682	0.154		0.183

Patients' characteristics	PC-animal avoidance factor score difference (T2-T1)								
	Whole sample			Adolescents			Adults		
	r	U	p	r	U	p	r	U	p
Age	0.031		0.727	-0.181		0.190	0.058		0.618
Current BMI	-0.071		0.419	0.049		0.726	-0.136		0.243
Perceived BMI	0.019		0.827	-0.066		0.636	0.079		0.500
Perceptual distortion	0.065		0.466	-0.112		0.421	0.186		0.107
EAT Total	0.324		<b>&lt;.001</b>	0.266		0.051	0.377		<b>&lt;.001</b>
EAT Dieting	0.351		<b>&lt;.001</b>	0.33		<b>0.015</b>	0.374		<b>&lt;.001</b>
EAT Bulimia	0.230		<b>0.008</b>	0.265		0.053	0.217		0.060
EAT Oral	0.161		0.068	0.025		0.858	0.265		<b>0.021</b>
HADS anxiety score	0.155		0.079	0.235		0.087	0.098		0.401
Anxiety remission		910	0.221		159	0.558		296	0.213
HADS depression score	0.103		0.245	0.14		0.311	0.08		0.492
Depression remission		1334	0.115		156	<b>0.025</b>		538	0.651
PANAS positive	-0.073		0.410	0.111		0.424	-0.182		0.115
PANAS negative	0.200		<b>0.022</b>	0.093		0.504	0.263		<b>0.022</b>
WSAS	0.119		0.176	-0.117		0.401	0.262		<b>0.022</b>
Delay between visits	0.072		0.417	-0.058		0.677	0.184		0.111

PC-vegetal avoidance factor score difference (T2-T1)

Patients' characteristics	Whole sample			Adolescents			Adults		
	r	U	p	r	U	p	r	U	p
Age	-0.034		0.700	-0.114		0.411	0.054		0.645
Current BMI	0.172		0.050	0.121		0.384	0.2		0.083
Perceived BMI	0.035		0.691	-0.044		0.751	0.077		0.506
Perceptual distortion	-0.100		0.257	-0.124		0.372	-0.094		0.422
EAT Total	0.125		0.157	0.165		0.234	0.085		0.466
EAT Dieting	0.088		0.320	0.148		0.285	0.038		0.744
EAT Bulimia	0.119		0.177	0.177		0.200	0.058		0.619
EAT Oral	0.118		0.181	0.104		0.455	0.127		0.273
HADS anxiety score	0.043		0.629	-0.081		0.561	0.138		0.236
Anxiety remission		1084	0.920		161	0.590		367	0.814
HADS depression score	-0.044		0.618	0.043		0.759	-0.111		0.340
Depression remission		1588	0.818		252	0.780		525	0.546
PANAS positive	-0.078		0.381	0.014		0.921	-0.165		0.154
PANAS negative	0.146		0.098	0.006		0.966	0.241		<b>0.036</b>
WSAS	0.099		0.262	0.033		0.814	0.158		0.173
Delay between visits	-0.059		0.509	0.026		0.854	-0.027		0.820

**Table S3.5. Characteristics of 130 patients with anorexia nervosa who reintroduced at least one fat food (versus did not) after four months of treatment (analysis by age corresponding to Table 4).**

	Whole sample			Adolescents			Adults		
	χ <sup>2</sup>	U	p	χ <sup>2</sup>	U	p	χ <sup>2</sup>	U	p
Age		1604	0.386		275	0.368		573	0.958
Education (high)	2.11		0.146	0.48		0.487	1.29		0.257
Working (presently)	0.01		0.903	1.26		0.262	0.35		0.552
Familial history of ED (yes)	0.93		0.336	2.65		0.104	0.02		0.877
Subtype (restrictive)	3.00		0.083	0.35		0.554	3.57		0.059
Age at onset		1726	0.807		310	0.803		473	0.223
Illness duration		1510	0.178		259	0.220		483	0.274
BMI									
At T1		1609	0.402		264	0.271		391	<b>0.030</b>
Difference		1707	0.734		300	0.660		573	0.958
Minimum lifetime BMI		1325	0.559		203	0.088		399	0.681
Maximum lifetime BMI		1345	0.642		205	0.095		353	0.274
BMI max-current		1274	0.372		254	0.494		419	0.901
BMI current-min		1322	0.548		251	0.454		319	0.113
BMI max-min		1308	0.494		246	0.390		387	0.552
Perceived BMI									
At T1		1734	0.838		287	0.494		551	0.760
Difference		1571	0.298		255	0.206		576	0.986
Perceptual distortion									
At T1		1556	0.268		308	0.769		421	0.070
Difference		1474	0.127		286	0.491		453	0.148
Subjective ideal BMI		1341	0.377		221	0.661		386	0.075
EAT total									
At T1		1383	0.047		243	0.139		457	0.163
Difference		1288	0.013		228	0.078		431	0.088
EAT dieting									
At T1		1413	0.066		227	0.076		488	0.301



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Difference	1370	0.040	251	0.180	457	0.162
EAT bulimia						
At T1	1222	<b>0.005</b>	224	0.066	406	0.046
Difference	1497	0.155	282	0.442	449	0.134
EAT oral						
At T1	1693	0.678	315	0.876	546	0.718
Difference	1215	<b>0.004</b>	190	<b>0.013</b>	438	0.104
HADS anxiety						
At T1	1243	<b>0.007</b>	220	0.057	415	0.058
Remission	4.50	0.034	3.60	0.058	1.40	0.236
HADS depression						
At T1	1548	0.249	287	0.501	505	0.397
Remission	0.12	0.728	1.27	0.260	0.21	0.645
PANAS positive						
At T1	1709	0.741	311	0.818	492	0.320
Difference	1489	0.147	230	0.084	537	0.642
PANAS negative						
At T1	1360	0.035	240	0.123	452	0.144
Difference	1542	0.238	223	0.064	570	0.930
WSAS						
At T1	1408	0.062	248	0.165	473	0.224
Difference	1711	0.747	304	0.713	558	0.825
Delay between visits	1719	0.778	270	0.326	536	0.634

*BMI: body mass index; EAT: eating attitudes test-26; ED: eating disorder; HADS: hospital anxiety and depressive scale; p: p-value; PANAS: positive and negative affect schedule; SD: standard deviation; T1: at baseline; U: Mann-Whitney U; WSAS: work and social adjustment scale;  $\chi^2$ : chi-squared test. Bold numbers indicate p-values<0.05.*