

Supplementary Table 1. Patients' psychotropic medications.

Subject	APD1	Dose1	APD2	Dose2	Other Psychotropic
1	Clozapine	500	Quetiapine	100	Lorazepam
2	Clozapine	700	Risperidone	4	Sertraline, Clonazepam
3	Clozapine	125			
4	Clozapine	175			Sertraline, Lorazepam
5	Clozapine	300			
6	Clozapine	400			Paroxetine
7	Haloperidol	62.5*			
8	Olanzapine	12.5			
9	Olanzapine	15			
10	Risperidone	1			
11	Risperidone	2			
12	Risperidone	3			
13	Risperidone	3			
14	Risperidone	6			Paroxetine
15	Risperidone	6			
16	Risperidone	8			Benzotropine, Clonazepam
17	Risperidone	12.5#			
18	Ziprasidone	160			

Abbreviations: APD1, first antipsychotic drug; Dose1, oral dose of APD1, in mg (unless otherwise noted); APD2, second antipsychotic drug; Dose2, oral dose of APD2, in mg (unless otherwise noted);

* = intramuscular dose, Q 4 weeks; # = intramuscular dose, Q 2 weeks

Supplementary Table 2. Results of Spearman Correlation Analyses between MRI BOLD Responses to Unexpected Juice Deliveries (positive TDEs) and Standard Juice Deliveries in Patients

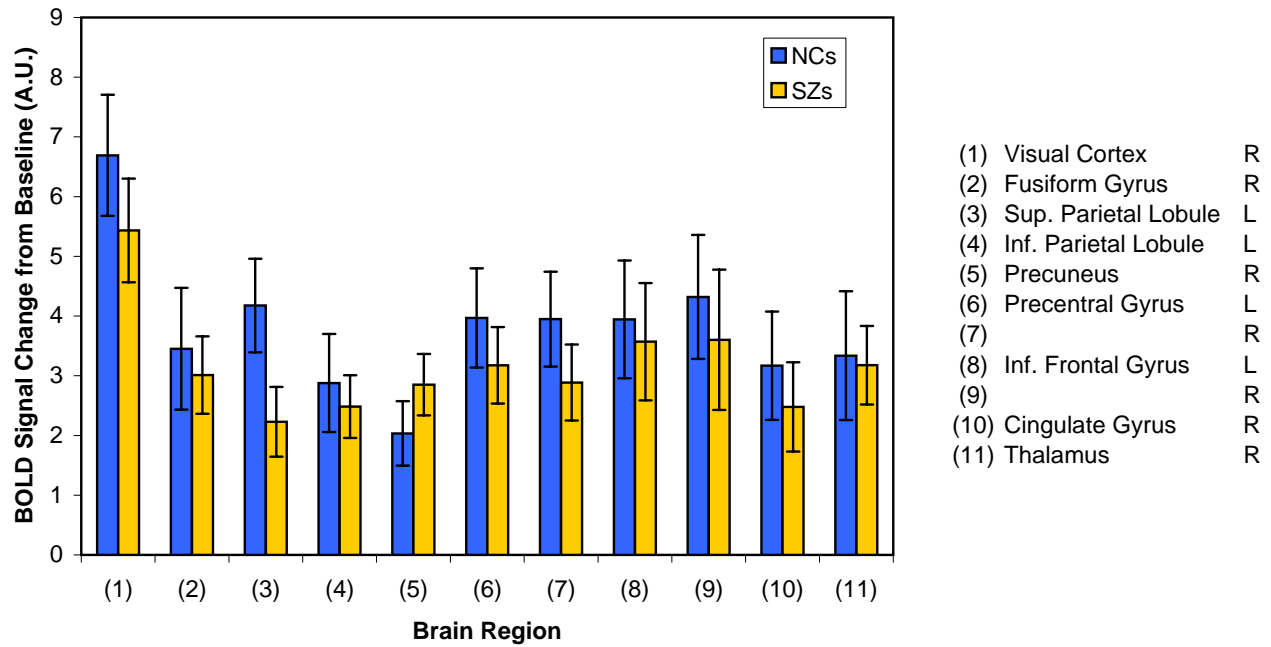
ROI Source	Region of Interest	Rho	p
WBA: ME of TDE Valence	(1) R Midbrain	0.265	0.287
	(2) L Putamen	-0.261	0.295
	(3) L Insula	0.329	0.182
	(4) R Insula	0.110	0.663
	(5) L Precentral Gyrus	0.082	0.748
	(6) R Precentral Gyrus	0.104	0.681
	(7) L Postcentral Gyrus	0.352	0.152
	(8) R Postcentral Gyrus	0.179	0.478
	(9) L Declive	-0.094	0.711
WBA: Group x TDE Valence Interaction	(10) R Putamen	0.335	0.174
	(11) L Precentral Gyrus	0.856	< 0.001
A priori	(12) L Putamen	0.490	0.039
	(13) R Putamen	0.670	0.002

Abbreviations: WBA, whole-brain analysis; ME, main effect; TDE, temporal difference error

Supplementary Table 3. Clusters showing significant activations by the conditioned stimulus, in the entire sample.

Location		Vol (μ l)	# Voxels	X , Y , Z	Mean t
(1)	Visual Cortex	R 98864	2515	7 , -69 , 6	6.05
(2)	Fusiform Gyrus	R 856	22	-44 , -57 , -7	3.23
(3)	Sup. Parietal Lobule	L 2412	61	-26 , -62 , 45	3.20
(4)	Inf. Parietal Lobule	L 483	12	-46 , -45 , 43	2.68
(5)	Precuneus	R 478	12	12 , -47 , 47	2.44
(6)	Precentral Gyrus	L 3198	81	-40 , 2 , 36	3.57
(7)		R 3406	87	45 , 4 , 36	3.41
(8)	Inf. Frontal Gyrus	L 600	15	-31 , 26 , 4	3.75
(9)		R 796	20	41 , 22 , 11	3.96
(10)	Cingulate Gyrus	R 427	11	10 , 20 , 41	2.82
(11)	Thalamus	R 721	18	-22 , -27 , -2	3.25

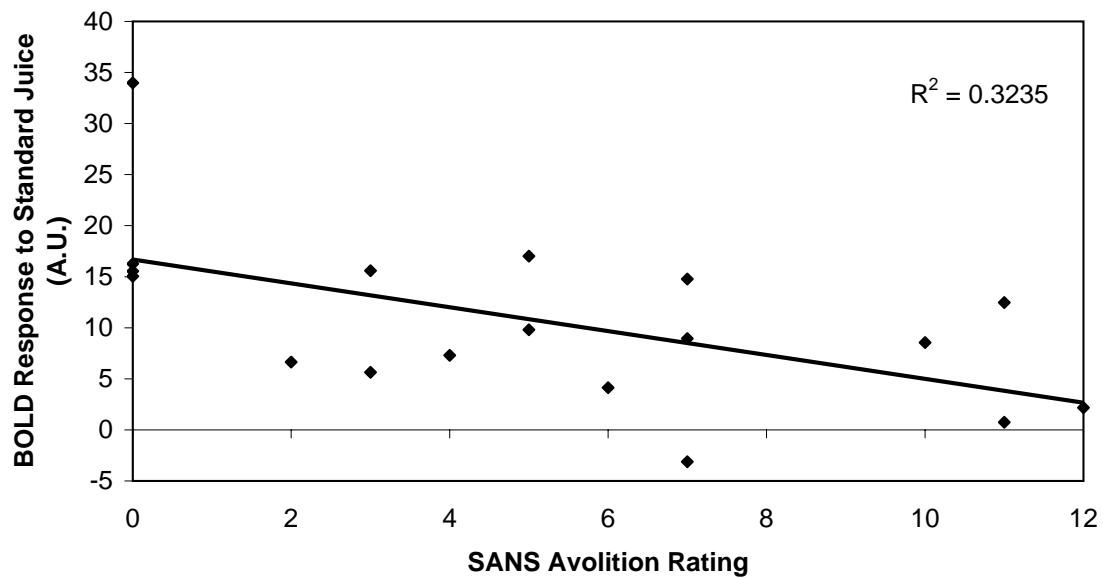
Supplementary Figure 1. ROI analyses of clusters showing significant activations by the conditioned stimulus, in patients and controls.



Supplementary Figure 2. Scatter plots of avolition ratings by BOLD responses to the juice reinforcer

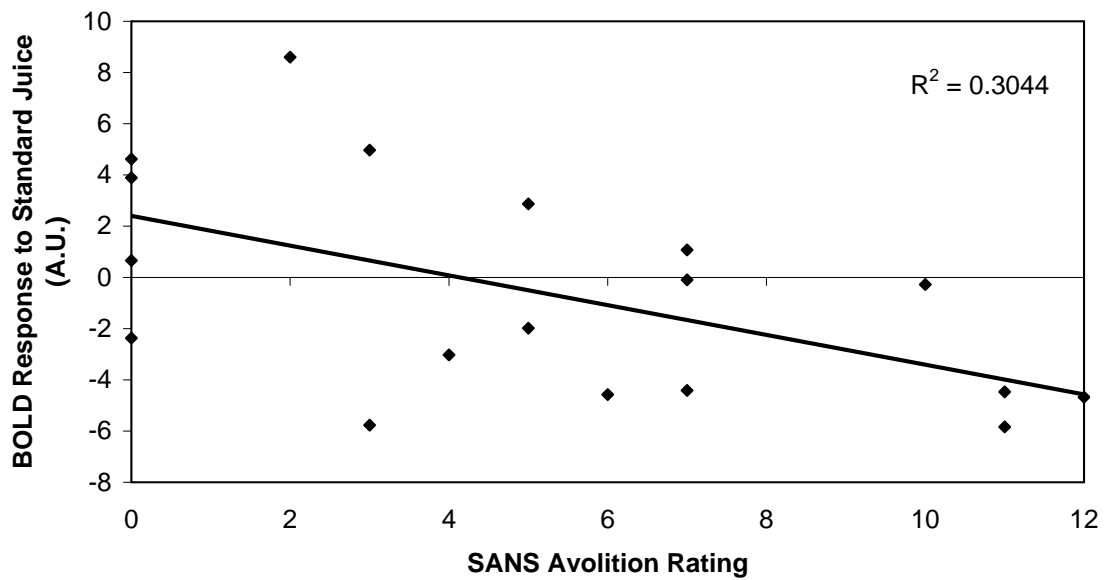
A

Left Frontal Operculum



B

Left Putamen



Supplementary Figure Captions

Supplementary Figure 1. In order to determine whether patients' responses to the conditioned stimulus were also disrupted, we examined BOLD responses to the light cue, relative to baseline. Patients and controls did not differ in their cue-evoked activations in any of these areas. There was a trend toward a group difference in the left superior parietal lobule, however. MRI signal changes expressed in arbitrary units.

Supplementary Figure 2. Scatter plots of standard juice responses by avolition ratings from the SANS in the *a.* left frontal operculum (primary gustatory cortex) and *b.* the left putamen ROI, selected a priori (talairach coordinates: -18, 2, 8). MRI signal changes expressed in arbitrary units.