

Supplementary materials

Table S1. Pairwise correlations between study variables

<i>r</i>	Age at baseline	Gender	Effortful control	Negative affectivity	Affiliativeness	Surgency	AEQ gaming addiction score	Left anterior cingulate cortex volume	Right anterior cingulate cortex volume	Left orbitofrontal cortex volume	Right orbitofrontal cortex volume	Left hippocampus volume	Right hippocampus volume	Left amygdala volume	Right amygdala volume	Intracranial volume
Age at baseline	1															
Gender	-0.052	1														
Effortful control	-0.033	0.245	1													
Negative affectivity	-0.081	-0.152	-0.646	1												
Affiliativeness	-0.175	0.200	0.176	0.058	1											
Surgency	0.0002	0.043	0.298	-0.418	0.010	1										
AEQ gaming addiction score	0.035	-0.375	-0.364	0.381	-0.139	-0.175	1									
Left anterior cingulate cortex volume	0.046	-0.036	0.173	-0.062	-0.094	0.076	0.007	1								
Right anterior cingulate cortex volume	0.030	-0.175	-0.010	-0.036	-0.091	0.036	0.034	0.547	1							
Left orbitofrontal cortex volume	-0.066	-0.114	0.083	-0.091	-0.141	0.071	0.042	0.342	0.344	1						
Right orbitofrontal cortex volume	-0.111	-0.071	0.066	-0.023	-0.084	0.003	0.061	0.392	0.377	0.832	1					
Left hippocampus volume	0.199	-0.180	0.136	-0.098	-0.156	0.006	0.121	0.215	0.316	0.288	0.262	1				
Right hippocampus volume	0.224	-0.136	0.105	-0.064	-0.197	0.034	0.035	0.226	0.283	0.297	0.260	0.813	1			

Left amygdala volume	0.083	-0.293	0.020	-0.013	-0.170	-0.038	0.096	0.167	0.240	0.421	0.385	0.381	0.451	1		
Right amygdala volume	0.049	-0.187	0.004	-0.004	-0.194	-0.070	0.074	0.131	0.194	0.411	0.363	0.359	0.359	0.773	1	
Intracranial volume	0.074	-0.473	-0.107	0.077	-0.221	-0.004	0.254	0.383	0.466	0.490	0.479	0.413	0.447	0.582	0.511	1

Note. r = correlation coefficient, $p < .05$ printed in bold.

Table S2. Associations between temperament, left hemispheric brain volume and problematic video gaming

AEQ gaming addiction score	Coeff.	95% CI	p
Effortful control	-1.59	-4.34, 1.15	.256
Negative affectivity	3.02	0.29, 5.73	.030
Affiliativeness	-0.64	-2.65, 1.36	.529
Surgency	0.06	-2.15, 2.27	.956
Gender	-4.84	-9.67, -0.02	.049
Intracranial volume	1.77	-1.68, 5.23	.314
Left hippocampus volume	1.06	-1.71, 3.82	.454
Left amygdala volume	-0.38	-3.50, 2.73	.809
Left anterior cingulate cortex volume	-0.40	-3.04, 2.25	.767
Left orbitofrontal cortex volume	-0.29	-3.09, 2.52	.841
constant	16.85	9.26, 24.45	<.001

Note. Gender: 1 = male, 2 = female. Number of observations = 245

Table S3. Associations between temperament, right hemispheric brain volume and problematic video gaming

AEQ gaming addiction score	Coeff.	95% CI	p
Effortful control	-1.59	-4.25, 1.06	.239
Negative affectivity	2.91	0.25, 5.56	.032
Affiliativeness	-0.65	-2.68, 1.37	.528
Surgency	-0.08	-2.32, 2.16	.944
Gender	-5.08	-9.83, -0.33	.036
Intracranial volume	1.78	-1.71, 5.28	.318
Right hippocampus volume	-0.16	-3.09, 2.77	.915
Right amygdala volume	-0.14	-2.83, 2.54	.916
Right anterior cingulate cortex volume	-0.16	-2.80, 2.47	.903
Right orbitofrontal cortex volume	0.10	-2.64, 2.84	.942
constant	17.09	9.60, 24.59	<.001

Note. Gender: 1 = male, 2 = female. Number of observations = 245

Table S4. Full models including temperament factors, left hemispheric ROIs and interactions between temperament factors and ROIs

AEQ gaming addiction score	Coeff.	95% CI	p
Effortful control (EC)	-1.22	-4.8, 2.3	.498
Negative affectivity (NA)	3.26	0.4, 6.2	.028
Affiliativeness (AF)	-0.08	-2.3, 2.2	.948
Surgency (SUR)	0.45	-2.0, 2.9	.712
Gender	-2.82	-7.6, 2.0	.178
Intracranial volume	2.41	-1.1, 5.9	.250
Lh hippocampus volume	-0.20	-3.0, 2.6	.885
Lh amygdala volume	-0.24	-3.3, 2.8	.879
Lh anterior cingulate cortex volume	0.10	-2.8, 2.4	.943
Lh orbitofrontal cortex volume	-0.24	-2.8, 2.4	.858
EC * lh hippocampus volume	-3.54	-7.7, 0.6	.092
EC * lh amygdala volume	-2.98	-6.7, 0.7	.113
EC * lh anterior cingulate cortex volume	0.59	-2.7, 3.9	.726
EC * lh orbitofrontal cortex volume	-0.44	-4.7, 0.7	.839
NA * lh hippocampus volume	-1.39	-5.8, 3.1	.542
NA * lh amygdala volume	-3.38	-7.0, 0.3	.070
NA * lh anterior cingulate cortex volume	-1.21	-4.3, 1.9	.447
NA * lh orbitofrontal cortex volume	5.05	1.1, 9.0	.012
AF * lh hippocampus volume	-0.59	-3.7, 2.5	.709
AF * lh amygdala volume	1.59	-0.8, 4.0	.188
AF * lh anterior cingulate cortex volume	-1.41	-4.6, 1.7	.379
AF * lh orbitofrontal cortex volume	1.40	-2.2, 5.0	.441
SUR * lh hippocampus volume	2.15	-1.4, 5.8	.241
SUR * lh amygdala volume	-3.68	-7.0, -0.3	.032
SUR * lh anterior cingulate cortex volume	-1.09	-4.4, 2.2	.519
SUR * lh orbitofrontal cortex volume	4.13	0.4, 7.9	.031
constant	15.99	7.0, 21.8	<.001

Note. Gender: 1 = male, 2 = female, lh = left hemisphere. Model fit compared to model containing no interaction terms. Number of observations = 245.

Table S5. Full models including temperament factors, right hemispheric ROIs and interactions between temperament factors and ROIs

AEQ gaming addiction score	Coeff.	95% CI	p
Effortful control (EC)	-2.50	-5.5, 0.5	.107
Negative affectivity (NA)	2.01	-0.9, 4.9	.174
Affiliativeness (AF)	-0.33	-2.4, 1.7	.756
Surgency (SUR)	-0.36	-3.1, 2.4	.796
Gender	-4.80	-0.5, 6.3	.049
Intracranial volume	2.90	-9.6, 0.0	.098
Rh hippocampus volume	-0.57	-3.8, 2.7	.731
Rh amygdala volume	-1.23	-3.9, 1.5	.375
Rh anterior cingulate cortex volume	-0.05	-3.0, 2.9	.973
Rh orbitofrontal cortex volume	-0.47	-3.2, 2.3	.734
EC * rh hippocampus volume	0.31	-3.7, 4.4	.881
EC * rh amygdala volume	-3.06	-5.9, -0.2	.034
EC * rh anterior cingulate cortex volume	-2.64	-6.0, 0.7	.124
EC * rh orbitofrontal cortex volume	1.64	-2.5, 5.7	.433
NA * rh hippocampus volume	0.34	-4.0, 4.7	.880
NA * rh amygdala volume	-1.89	-5.3, 1.5	.271
NA * rh anterior cingulate cortex volume	-1.72	-5.6, 2.1	.378
NA * rh orbitofrontal cortex volume	2.78	-1.9, 7.4	.240
AF * rh hippocampus volume	-0.79	-3.9, 2.3	.611
AF * rh amygdala volume	1.91	-0.3, 4.1	.090
AF * rh anterior cingulate cortex volume	-3.58	-6.8, -0.3	.031
AF * rh orbitofrontal cortex volume	2.40	-1.1, 5.9	.177
SUR * rh hippocampus volume	0.00	-3.7, 3.7	1.00
SUR * rh amygdala volume	-1.84	-5.0, 1.3	.252
SUR * rh anterior cingulate cortex volume	0.04	-4.0, 4.1	.984
SUR * rh orbitofrontal cortex volume	2.60	-0.7, 5.9	.121
constant	16.32	9.0, 23.6	<.001

Note. Gender: 1 = male, 2 = female, rh = left hemisphere. Model fit compared to model containing no interaction terms. Number of observations = 245.

Table S6. Associations between temperament, brain volume and problematic video gaming, by ROI (n = 245)

Outcome: AEQ gaming addiction score	Coeff.	95% CI	p
Left hippocampus model $\chi^2(4) = 6.91$, $p = .141^a$; $CD = 0.33$			
Effortful control (EC)	-2.25	-4.9, 0.4	.101
Negative affectivity (NA)	2.99	0.4, 5.6	.022
Affiliativeness (AF)	0.13	-2.0, 2.2	.906
Surgency (SUR)	0.49	-1.7, 2.7	.657
Gender	-4.38	-8.9, 0.1	.056
Intracranial volume	1.81	-0.8, 4.4	.170
Lh hippocampus volume	0.08	-2.7, 2.8	.953
EC * lh hippocampus volume	-4.17	-7.7, -0.6	.021
NA * lh hippocampus volume	-0.80	-4.4, 2.8	.667
AF * lh hippocampus volume	0.60	-2.2, 3.4	.673
SUR * lh hippocampus volume	1.84	-1.2, 4.9	.240
constant	16.57	9.5, 23.6	<.001
Right hippocampus model $\chi^2(4) = 3.03$, $p = .553^a$; $CD = 0.29$			
Effortful control (EC)	-1.43	-4.1, 1.3	.302
Negative affectivity (NA)	3.24	0.6, 5.9	.015
Affiliativeness (AF)	-0.38	-2.4, 1.6	.713
Surgency (SUR)	0.41	-1.8, 2.6	.720
Gender	-4.67	-9.2, -0.1	.045
Intracranial volume	2.24	-0.7, 5.1	.129
Rh hippocampus volume	-1.22	-4.2, 1.8	.426
EC * rh hippocampus volume	-2.23	-5.8, 1.3	.221
NA * rh hippocampus volume	-0.83	-4.5, 2.8	.657
AF * rh hippocampus volume	-1.08	-3.9, 1.7	.452
SUR * rh hippocampus volume	0.84	-2.5, 4.1	.620
constant	16.51	9.3, 23.7	<.001
Left Amygdala model $\chi^2(4) = 9.37$, $p = .053^a$; $CD = 0.35$			
Effortful control (EC)	-2.17	-4.7, 0.4	.101
Negative affectivity (NA)	3.69	1.0, 6.4	.007
Affiliativeness (AF)	-0.22	-2.3, 1.9	.838
Surgency (SUR)	0.68	-1.6, 2.9	.555
Gender	-4.10	-8.7, 0.5	.079
Intracranial volume	1.03	-1.7, 3.8	.465
Lh amygdala volume	0.65	-2.2, 3.5	.656
EC * lh amygdala volume	-4.33	-7.5, -1.2	.007
NA * lh amygdala volume	-1.98	-5.3, 1.3	.237
AF * lh amygdala volume	1.11	-0.9, 3.1	.281
SUR * lh amygdala volume	-1.53	-4.5, 1.4	.314
constant	15.86	8.7, 23.0	<.001
Right Amygdala model $\chi^2(4) = 10.12$, $p = .038^a$; $CD = 0.34$			
Effortful control (EC)	-2.43	-5.0, 0.2	.067
Negative affectivity (NA)	3.25	0.6, 5.9	.015
Affiliativeness (AF)	-0.45	-2.5, 1.7	.677
Surgency (SUR)	0.92	-1.4, 3.3	.443
Gender	-4.25	-8.7, 0.2	.060
Intracranial volume	1.53	-1.1, 4.1	.253
Rh amygdala volume	-0.85	-3.4, 1.7	.508

EC * rh amygdala volume	-4.19	-6.9, -1.5	.002
NA * rh amygdala volume	-1.66	-4.8, 1.5	.298
AF * rh amygdala volume	0.60	-1.3, 2.5	.548
SUR * rh amygdala volume	-0.34	-3.1, 2.4	.808
constant	15.95	9.0, 22.9	<.001
Left anterior cingulate cortex (ACC) model $\chi^2(4) = 1.40$, $p = .845^a$; CD = 0.27			
Effortful control (EC)	-1.82	-4.5, 1.0	.201
Negative affectivity (NA)	2.71	-0.0, 5.4	.052
Affiliativeness (AF)	-0.91	-3.0, 1.1	.383
Surgency (SUR)	-0.02	-2.3, 2.3	.984
Gender	-4.78	-9.6, 0.1	.053
Intracranial volume	1.82	-1.1, 4.8	.223
Lh ACC volume	-0.30	-2.9, 2.3	.824
EC * lh ACC volume	-1.09	-3.9, 1.7	.446
NA * lh ACC volume	-0.03	-2.8, 2.7	.984
AF * lh ACC volume	-0.37	-3.0, 2.2	.783
SUR * lh ACC volume	1.26	-1.3, 3.9	.344
constant	16.71	9.1, 24.3	<.001
Right anterior cingulate cortex (ACC) model $\chi^2(4) = 9.75$, $p = .045^a$; CD = 0.34			
Effortful control (EC)	-2.39	-4.9, 0.1	.065
Negative affectivity (NA)	2.10	-0.5, 4.7	.113
Affiliativeness (AF)	-0.58	-2.5, 1.3	.556
Surgency (SUR)	-0.03	-2.1, 2.1	.979
Gender	-5.09	-9.7, -0.5	.030
Intracranial volume	1.43	-1.3, 4.1	.296
Rh ACC volume	-0.07	-2.7, 2.6	.957
EC * rh ACC volume	-2.62	-5.4, 0.2	.065
NA * rh ACC volume	-0.17	-3.0, 2.6	.905
AF * rh ACC volume	-2.05	-4.5, 0.4	.105
SUR * rh ACC volume	1.85	-1.0, 4.7	.200
constant	16.90	9.6, 24.1	<.001
Left orbitofrontal cortex (OFC) model $\chi^2(4) = 7.25$, $p = .123^a$; CD = 0.33			
Effortful control (EC)	-0.94	-3.5, 1.6	.471
Negative affectivity (NA)	3.03	0.5, 5.6	.021
Affiliativeness (AF)	-0.67	-2.6, 1.3	.501
Surgency (SUR)	-0.27	-2.4, 1.9	.804
Gender	-3.38	-8.0, 1.2	.149
Intracranial volume	2.34	-0.4, 5.1	.095
Lh OFC volume	-0.44	-3.0, 2.1	.739
EC * lh OFC volume	-2.39	-5.5, 0.7	.133
NA * lh OFC volume	2.27	-0.8, 5.4	.149
AF * lh OFC volume	0.76	-1.8, 3.4	.566
SUR * lh OFC volume	1.92	-0.9, 4.7	.177
constant	15.15	8.0, 22.3	<.001
Right orbitofrontal cortex (OFC) model $\chi^2(4) = 4.96$, $p = .291^a$; CD = 0.31			
Effortful control (EC)	-1.44	-4.0, 1.1	.276
Negative affectivity (NA)	2.82	0.2, 5.4	.035
Affiliativeness (AF)	-0.67	-2.6, 1.3	.507
Surgency (SUR)	-0.40	-2.6, 1.8	.720
Gender	-3.97	-8.7, 0.8	.102
Intracranial volume	2.16	-0.8, 5.1	.146

Rh OFC volume	-0.20	-2.9, 2.5	.882
EC * rh OFC volume	-1.37	-4.8, 2.1	.436
NA * rh OFC volume	2.14	-1.4, 5.7	.241
AF * rh OFC volume	0.27	-2.6, 3.2	.852
SUR * rh OFC volume	2.33	-0.3, 4.9	.078
constant	15.73	8.3, 23.1	<.001

Note. Gender: 1 = male, 2 = female, CD = coefficient of determination, rh = right hemisphere, lh = left hemisphere. ^aModel fit compared to model containing no interaction term. Results from likelihood ratio test.

Table S7. Single models for each temperament factor by ROI combination

	AEQ Gaming addiction score	Coeff.	95% CI	p	Model fit^a
Left hemisphere	Effortful control (EC)	-4.79	-6.8, -2.8	<.001	$\chi^2(1) = 0.61$, p = .434
	lh Hippocampus	1.18	-1.4, 3.7	.363	
	EC * lh hippocampus	-2.87	-5.6, -0.2	.038	
Right hemisphere	Effortful control (EC)	-4.78	-6.8, -2.7	<.001	$\chi^2(1) = 6.27$, p = .012
	rh Hippocampus	0.97	-1.7, 3.7	.479	
	EC * rh hippocampus	-1.09		.432	
Left hemisphere	Effortful control (EC)	-5.29	-7.3, -3.3	<.001	$\chi^2(1) = 6.27$, p = .012
	lh Amygdala	1.66	-0.6, 3.9	.157	
	EC * lh amygdala	-3.03	-5.3, -0.8	.008	
Right hemisphere	Effortful control (EC)	-5.17	-7.2, -3.2	<.001	$\chi^2(1) = 7.74$, p = .005
	rh Amygdala	0.19	-2.1, 2.5	.871	
	EC * rh amygdala	-2.95	-4.9, -0.9	.003	
Left hemisphere	Effortful control (EC)	-4.80	-6.9, -2.7	<.001	$\chi^2(1) = 0.58$, p = .446
	lh Anterior cingulate cortex	0.88	-1.4, 3.2	.452	
	EC * lh ACC	-1.01		.442	
Right hemisphere	Effortful control (EC)	-4.75	-6.7, -2.7	<.001	$\chi^2(1) = 5.47$, p = .019
	rh Anterior cingulate cortex	0.04	-2.2, 2.3	.974	
	EC * rh ACC	-2.88	-5.2, -0.6	.015	
Left hemisphere	Effortful control (EC)	-3.86	-6.0, -1.7	<.001	$\chi^2(1) = 4.82$, p = .028
	lh Orbitofrontal cortex	0.76	-1.6, 3.1	.526	
	EC * lh OFC	-3.41	-6.3, -0.5	.022	
Right hemisphere	Effortful control (EC)	.438	-6.4, -2.3	<.001	$\chi^2(1) = 2.14$, p = .144
	rh Orbitofrontal cortex	1.05	-1.3, 3.4	.374	
	EC * rh OFC	-2.09	-4.8, 0.7	.136	
Left hemisphere	Negative affectivity (NA)	4.89	2.9, 6.9	<.001	$\chi^2(1) = 0.23$, p = .632
	lh Hippocampus	2.02	-0.4, 4.5	.105	
	NA * lh hippocampus	0.68	-2.1, 3.5	.631	
Right hemisphere	Negative affectivity (NA)	4.75	2.7, 6.8	<.001	$\chi^2(1) = 0.04$, p = .835
	rh Hippocampus	.87	-1.8, 3.5	.516	
	NA * rh hippocampus	-.30	-3.1, 2.5	.835	
Left hemisphere	Negative affectivity (NA)	5.09	3.1, 7.1	<.001	$\chi^2(1) = 1.24$, p = .265
	lh Amygdala	2.01	-0.4, 4.4	.100	
	NA * lh amygdala	1.24	-0.9, 3.4	.259	
Right hemisphere	Negative affectivity (NA)	4.97	3.0, 7.0	<.001	$\chi^2(1) = 1.19$, p = .275
	rh Amygdala	1.34	1.0, 3.6	.255	
	NA * rh amygdala	1.14	-0.9, 3.2	.270	
Left hemisphere	Negative affectivity (NA)	4.69	2.7, 6.7	<.001	$\chi^2(1) = 0.16$, p = .686
	lh Anterior cingulate cortex	0.24	-2.0, 2.5	.832	

	NA * lh ACC	0.49	-1.9, 2.8	.685	
Right hemisphere	Negative affectivity (NA)	4.73	2.7, 6.7	<.001	$\chi^2(1) = , p = .$
	rh Anterior cingulate cortex	0.81	-1.5, 3.2	.496	
	NA * rh ACC	0.70	-1.5, 2.9	.536	
Left hemisphere	Negative affectivity (NA)	4.74	2.7, 6.7	<.001	$\chi^2(1) = 3.41, p = .065$
	lh Orbitofrontal cortex	1.07	-1.3, 3.4	.374	
	NA * lh OFC	2.35	-0.1, 4.8	.058	
Right hemisphere	Negative affectivity (NA)	4.71	2.7, 6.7	<.001	$\chi^2(1) = 2.46, p = .117$
	rh Orbitofrontal cortex	1.15	-1.2, 3.5	.331	
	NA * rh OFC	2.23	-0.5, 5.0	.108	
Left hemisphere	Affiliativeness (AF)	-1.55	-3.7, 0.6	<.001	$\chi^2(1) = 2.55, p = .110$
	lh Hippocampus	1.13	-1.5, 3.8	.401	
	AF * lh hippocampus	-2.25	-4.9, 0.4	.100	
Right hemisphere	Affiliativeness (AF)	-1.43	-3.6, 0.7	<.001	$\chi^2(1) = 2.26, p = .133$
	rh Hippocampus	-0.05	-2.9, 2.8	.972	
	AF * rh hippocampus	-2.28	-5.2, 0.6	.120	
Left hemisphere	Affiliativeness (AF)	-1.61	-3.8, 0.6	.146	$\chi^2(1) = 0.27, p = .603$
	lh Amygdala	1.21	-1.4, 3.8	.365	
	AF * lh amygdala	-0.51	-2.4, 1.4	.602	
Right hemisphere	Affiliativeness (AF)	-1.96	-4.2, 0.3	.087	$\chi^2(1) = 1.90, p = .168$
	rh Amygdala	0.67	-1.8, 3.2	.601	
	AF * rh amygdala	-1.33	-3.2, 0.5	.163	
Left hemisphere	Affiliativeness (AF)	-1.75	-3.9, 0.4	.112	$\chi^2(1) = 0.10, p = .750$
	lh Anterior cingulate cortex	0.16	-2.4, 2.4	.989	
	AF * lh ACC	0.44	-3.1, 2.2	.750	
Right hemisphere	Affiliativeness (AF)	-1.97	-4.0, 0.3	.084	$\chi^2(1) = 4.12, p = .042$
	rh Anterior cingulate cortex	0.53	-1.9, 3.0	.672	
	AF * rh ACC	-2.9	-5.6, -0.2	.035	
Left hemisphere	Affiliativeness (AF)	-1.68	-3.9, 0.5	.123	$\chi^2(1) = 0.01, p = .922$
	lh Orbitofrontal cortex	0.53	-2.0, 3.1	.685	
	AF * lh OFC	-0.15	-3.2, 2.9	.923	
Right hemisphere	Affiliativeness (AF)	-1.74	-3.9, 0.4	.113	$\chi^2(1) = 0.02, p = .897$
	rh Orbitofrontal cortex	0.84	-1.7, 3.4	.509	
	AF * rh OFC	-0.22	-3.5, 3.0	.897	
Left hemisphere	Surgency (SUR)	-2.13	-4.3, 0.0	.051	$\chi^2(1) = 0.01, p = .914$
	lh Hippocampus	1.34	-1.3, 4.0	.328	
	SUR * lh hippocampus	-0.17	-3.3, 2.9	.915	
Right hemisphere	Surgency (SUR)	-2.22	-4.3, -0.1	.041	$\chi^2(1) = 0.46, p = .496$
	rh Hippocampus	0.34	-2.4, 3.1	.809	
	SUR * rh hippocampus	-1.13	-4.4, 2.1	.493	

Left hemisphere	Surgency (SUR)	-1.90	-4.0, 0.2	.082	$\chi^2(1) = 2.4, p = .121$
	lh Amygdala	1.26	-1.3, 3.8	.327	
	SUR * lh amygdala	-2.01	-4.5, 0.5	.112	
Right hemisphere	Surgency (SUR)	-1.86	-4.0, 0.3	.089	$\chi^2(1) = 3.21, p = .073$
	rh Amygdala	0.58	-1.8, 3.0	.637	
	SUR * rh amygdala	-2.33	-4.8, 0.2	.066	
Left hemisphere	Surgency (SUR)	-2.29	-4.4, -.14	.036	$\chi^2(1) = 0.71, p = .399$
	lh Anterior cingulate cortex	0.26	-2.1, 2.7	.831	
	SUR * lh ACC	1.10	-1.4, 3.6	.397	
Right hemisphere	Surgency (SUR)	-2.20	-4.3, -0.1	.041	$\chi^2(1) = 1.27, p = .260$
	rh Anterior cingulate cortex	0.62	-1.9, 3.1	.625	
	SUR * rh ACC	1.58	-1.2, 4.3	.257	
Left hemisphere	Surgency (SUR)	-2.21	-4.3, -0.1	.042	$\chi^2(1) = 0.04, p = .837$
	lh Orbitofrontal cortex	0.62	-1.9, 3.2	.636	
	SUR * lh OFC	0.28	-2.3, 2.9	.837	
Right hemisphere	Surgency (SUR)	-2.14	-4.3, -0.0	.048	$\chi^2(1) = 0.37, p = .541$
	Rh Orbitofrontal cortex	0.57	-1.9, 3.1	.657	
	SUR * rh OFC	0.81	-1.8, 3.4	.540	

Note. Gender: 1 = male, 2 = female, CD = coefficient of determination, rh = right hemisphere, lh = left hemisphere. ^aModel fit compared to model containing no interaction term. Results from likelihood ratio test.