

Data Supplement 1. Regions of Significant BOLD (blood-oxygen-level-dependent) Response Following Recovery From an Acute Episode of Schizophrenia With Control for Healthy Subjects' Activation Changes Across Scanning Times^{a,b}

Task and Anatomical Region (Brodmann's area)	Talairach Coordinates			z	Cluster Size
	x	y	z		
Empathic versus social reasoning judgments					
Anterior activations					
Left medial prefrontal cortex (10/9)	-8	51	16	3.41	23
Posterior/subcortical activations					
Right posterior fusiform gyrus (19/37)	28	-66	-8	3.73	98
Right inferior/middle temporal gyrus (37)	50	-51	-3	3.36	176
Left inferior parietal lobule (40)	-40	-24	27	3.31	44
Left inferior parietal lobule (40)	-46	-43	26	3.26	25
Right lingual gyrus (18)	14	-72	-1	3.19	25
Right posterior cingulate (29)	10	-48	19	3.08	17
Forgivability versus social reasoning judgments					
Anterior activations					
Right superior frontal gyrus (10)	26	53	8	3.49	17
Left medial prefrontal cortex (10/9)	-4	55	14	3.38	32
Posterior/subcortical activations					
Left precuneus (7)	-12	-46	48	3.68	55
Left posterior middle temporal gyrus (37)	-50	-56	-1	3.37	88
Left paracentral lobule (6/31)	-6	-13	47	3.22	35
Left superior temporal gyrus (41)	-51	-21	3	3.22	13
Left cuneus (18)	-14	-96	12	3.49	18

^aFor patients, second versus first scans. For comparison subjects, second versus first scans.

^bA left medial prefrontal area (Brodmann's area 10/9) was improved in activation in response to both empathic and forgivability tasks following recovery of schizophrenia. Areas of activation exceeding the threshold ($p < 0.005$, uncorrected) and extent threshold 10 voxels were presented.

Data Supplement 2. Regions of Significant Blood-Oxygen-Level-Dependent Response to Empathic Versus Social Reasoning Judgments in Comparison and Schizophrenia Subjects^a

Scan Time, Group, and Anatomical Region (Brodmann's area)	Talairach Coordinates			z	Cluster Size
	x	y	z		
Time 1					
Healthy comparison subjects					
Anterior activations					
Left superior/medial prefrontal cortex (10)	-12	63	15	4.80	170
Left inferior frontal gyrus (45)	-55	24	12	4.35	81
Right medial prefrontal cortex (10)	10	63	12	3.70	39
Right inferior frontal gyrus (45)	58	22	20	3.45	19
Posterior/subcortical activations					
Precuneus (7)	-2	-58	43	5.25	1,254
Cuneus (19)	28	-88	23	4.20	33
Left inferior parietal/angular gyrus (39)	-51	-64	35	3.84	212
Right posterior fusiform gyrus (19)	28	-68	10	3.59	153
Left middle/inferior temporal gyrus (21)	-56	-8	-16	3.42	60
Right middle temporal gyrus (21)	60	-7	-18	3.42	29
Thalamus	-6	-11	-15	3.27	13
Patients with schizophrenia					
Anterior activations					
Right middle frontal gyrus (46)	46	45	16	3.91	50
Left medial prefrontal cortex (10)	-2	61	8	3.38	48
Posterior/subcortical activations					
Left superior temporal gyrus (22)	-61	-40	15	3.47	60
Left precuneus (7)	-12	-56	36	3.19	28
Left lingual gyrus (17)	-4	-87	3	3.16	21
Schizophrenia patients less than comparison subjects					
Left superior/medial prefrontal cortex (8)	-12	43	37	3.44	14
Right inferior temporal gyrus (19)	50	-64	-3	3.59	31
Thalamus	-10	-9	12	3.34	36
Right posterior fusiform gyrus (19)	26	-66	-8	3.31	17
Precuneus (7)	-8	-52	43	3.05	16
Left middle/inferior temporal gyrus (20)	-56	-7	-20	3.00	13
Time 2					
Healthy comparison subjects					
Anterior activations					
Left superior frontal/medial prefrontal cortex (8)	-4	41	48	3.99	76

Left superior frontal gyrus (9)	-2	60	28	3.62	43
Left medial prefrontal cortex (10)	-2	53	5	3.08	17
Posterior/subcortical activations					
Left inferior parietal/angular gyrus (39)	-48	-62	38	4.50	178
Posterior cingulate gyrus/precuneus (31, 7)	-2	-60	-28	3.98	403
Left middle occipital gyrus (18)	-18	-97	14	3.87	59
Right middle temporal gyrus (20)	55	-35	-10	3.03	17
Patients with schizophrenia					
Right anterior fusiform gyrus (37)	50	-47	-14	3.34	15
Caudate	-12	3	20	3.30	14
Midbrain	4	-26	-21	3.22	18
Schizophrenia patients less than comparison subjects					
Right middle frontal gyrus (10)	34	41	9	3.35	46
Left middle frontal gyrus (10)	-42	43	11	3.08	17
Corpus callosum	-2	-33	7	3.37	37
Thalamus	-2	-5	9	3.07	51
Precuneus (7)	2	-70	50	3.02	11

^aAreas of activation exceeding the threshold ($p < 0.005$, uncorrected) and extent threshold of 10 voxels are shown.

Data Supplement 3. Regions of Significant Blood-Oxygen-Level-Response to Forgivability Versus Social Reasoning Judgments in Comparison and Schizophrenia Subjects^a

Scan Time, Group and Anatomical Region (Brodmann's area)	Talairach Coordinates			z	Cluster Size
	x	y	z		
Time 1					
Healthy comparison subjects					
Anterior activations					
Left superior frontal gyrus (8)	-16	45	38	4.64	171
Right superior frontal gyrus (9)	22	42	31	3.99	66
Bilateral medial prefrontal cortex (10)	-6	59	21	3.79	387
Right middle frontal gyrus (8)	32	33	41	3.61	17
Posterior/subcortical activations					
Posterior cingulate (23)	-4	-47	24	5.01	962
Cuneus (17/19)	-22	-93	-2	4.04	78
Thalamus	-4	-33	3	3.88	102
Right lingual/posterior fusiform gyrus (18/19)	8	-82	-13	3.82	385
Left inferior parietal/angular gyrus (39)	-50	-59	34	3.13	42
Patients with schizophrenia					
Anterior activations					
Left medial prefrontal cortex (10)	-6	47	9	3.93	61
Left medial prefrontal cortex (6)	-2	43	35	3.18	56
Right inferior frontal gyrus (47)	42	29	2	3.30	91
Posterior/subcortical activations					
Globus pallidus	12	-6	6	3.65	83
Midbrain	-14	-14	-14	3.55	30
Right posterior middle temporal gyrus (39)	51	-63	22	3.47	59
Posterior cingulate (31)	-2	-25	34	3.46	27
Precuneus (7)	-2	-68	37	3.36	137
Thalamus	6	-13	12	3.35	36
Schizophrenia patients less than comparison subjects					
Left superior frontal gyrus (9)	-14	52	25	3.05	14
Right posterior fusiform gyrus (19)	22	-66	-8	3.60	74
Globus pallidus	8	-2	0	3.30	12
Left occipital lingual gyrus (19)	-8	-58	-2	3.05	20
Time 2					
Healthy comparison subjects					
Anterior activations					
Midline medial prefrontal cortex (10)	0	57	19	4.32	305
Left superior/middle frontal gyrus (10)	-20	50	23	3.53	45

Left medial prefrontal cortex (8)	-2	47	40	3.46	58
Anterior cingulate (32)	-6	41	13	3.27	17
Posterior/subcortical activations					
Posterior cingulate/thalamus (31)	6	-51	25	4.51	1,025
Right middle occipital gyrus (18)	36	-78	-8	3.50	47
Posterior cerebellum	-40	-63	-22	3.29	12
Left inferior parietal/angular gyrus (39)	-51	-64	33	3.02	20
Posterior cingulate gyrus (23)	0	-16	32	3.01	19
Patients with schizophrenia					
Left medial prefrontal cortex (8)	-4	41	39	3.17	10
Left medial prefrontal cortex (10)	-4	49	10	3.10	64
Midbrain	-2	-4	-3	3.11	20
Schizophrenia patients less than comparison subjects					
Right middle frontal gyrus (9)	50	27	32	3.41	33
Right inferior frontal gyrus (47)	44	21	-14	3.22	44
Left middle frontal gyrus (6)	-40	4	44	3.20	25
Left middle frontal gyrus (9)	-44	31	28	3.08	20
Thalamus	4	-19	12	4.32	372
Posterior cingulate gyrus (31)	8	-43	32	3.46	30

^aAreas of activation exceeding threshold ($p < 0.005$, uncorrected) and extent threshold 10 voxels are shown.