Altered Functional Connectivity of the Primary Visual Cortex in Adult Comitant Strabismus: A Resting-State Functional MRI Study

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Supplemetal Materials

Figure S1. Regions showing significant positive functional connectivities with ROI1 in the NC (normal control) group and SP (strabismic patient) group, respectively. Warmer colors represent positive functional connectivity.

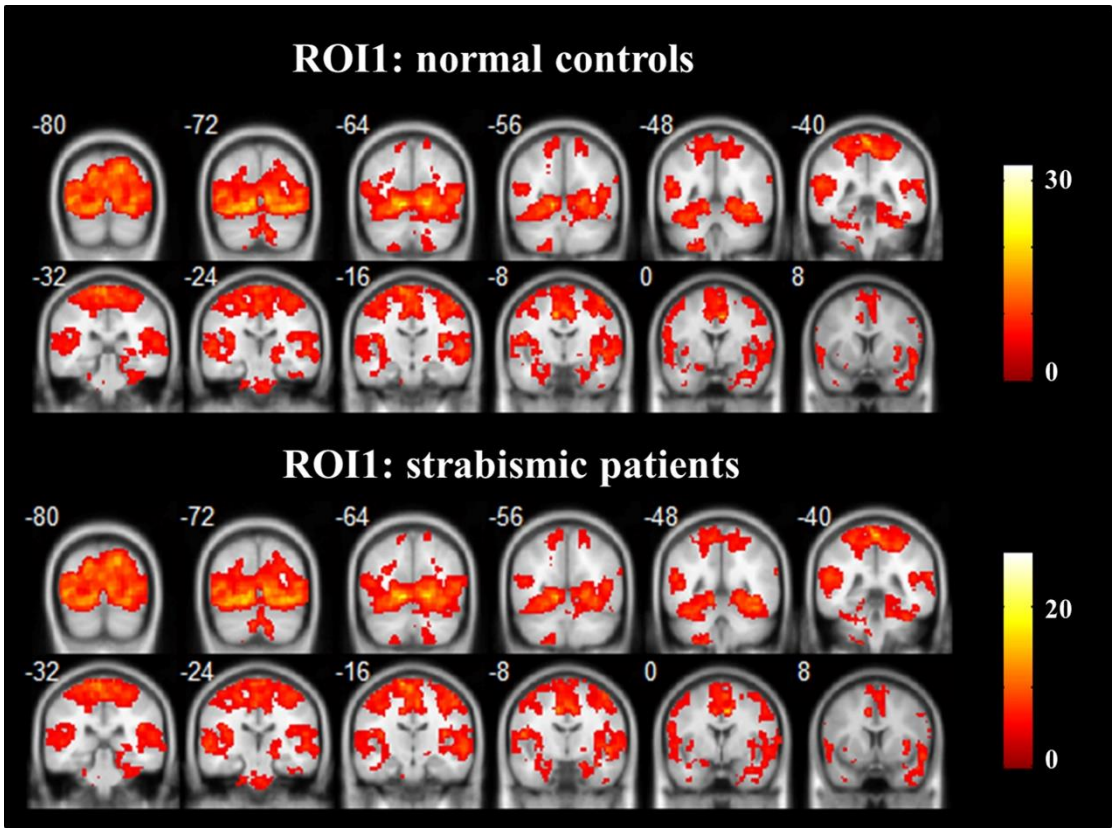

Figure S2. Regions showing significant positive functional connectivities with ROI2 in the NC (normal control) group and SP (strabismic patient) group, respectively. Warmer colors represent positive functional connectivity.

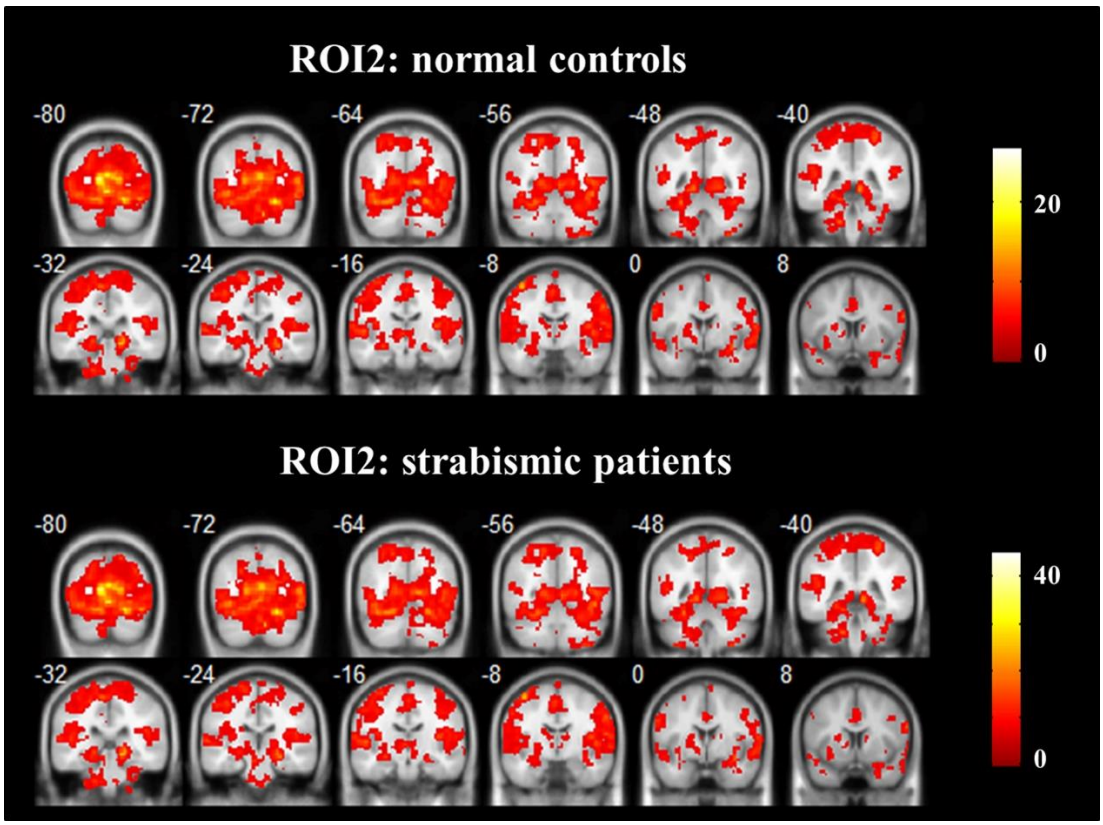

Figure S3. Regions showing significant positive functional connectivities with ROI3 in the NC (normal control) group and SP (strabismic patient) group, respectively. Warmer colors represent positive functional connectivity.

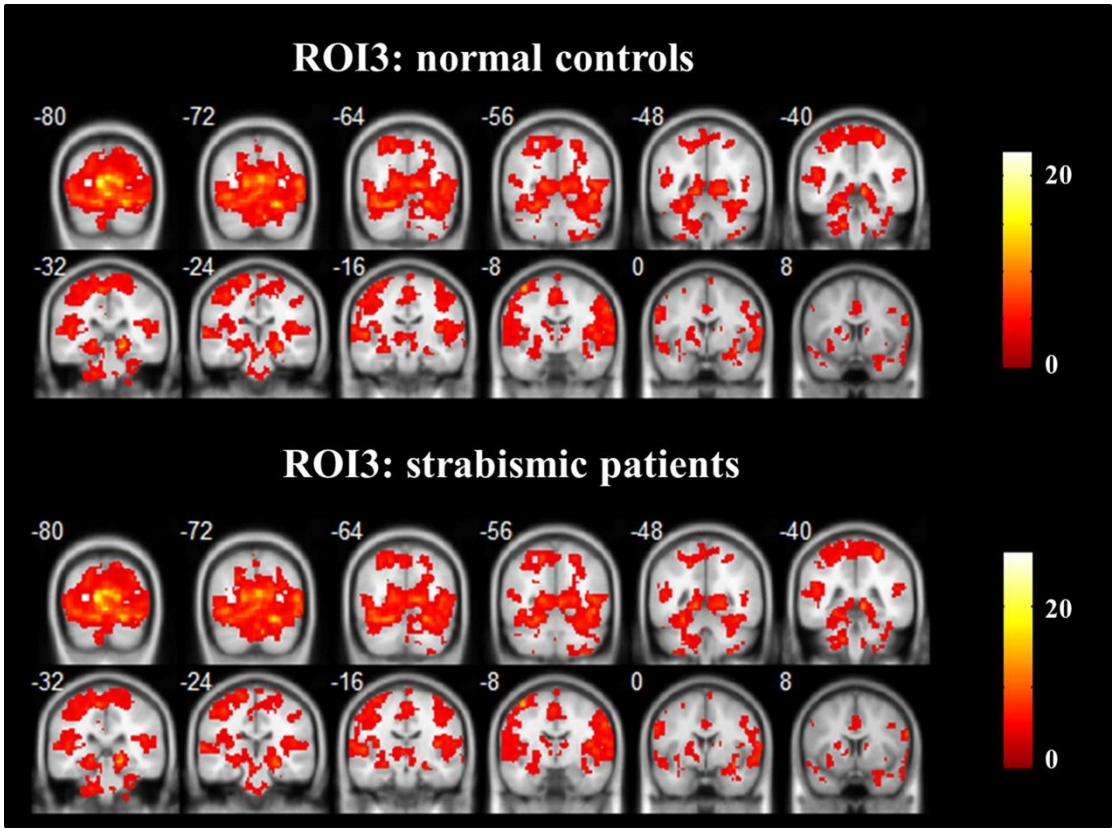

Figure S4. Regions showing significant positive functional connectivities with ROI2 in the NC (normal control) group and SP (strabismic patient) group, respectively. Warmer colors represent positive functional connectivity.

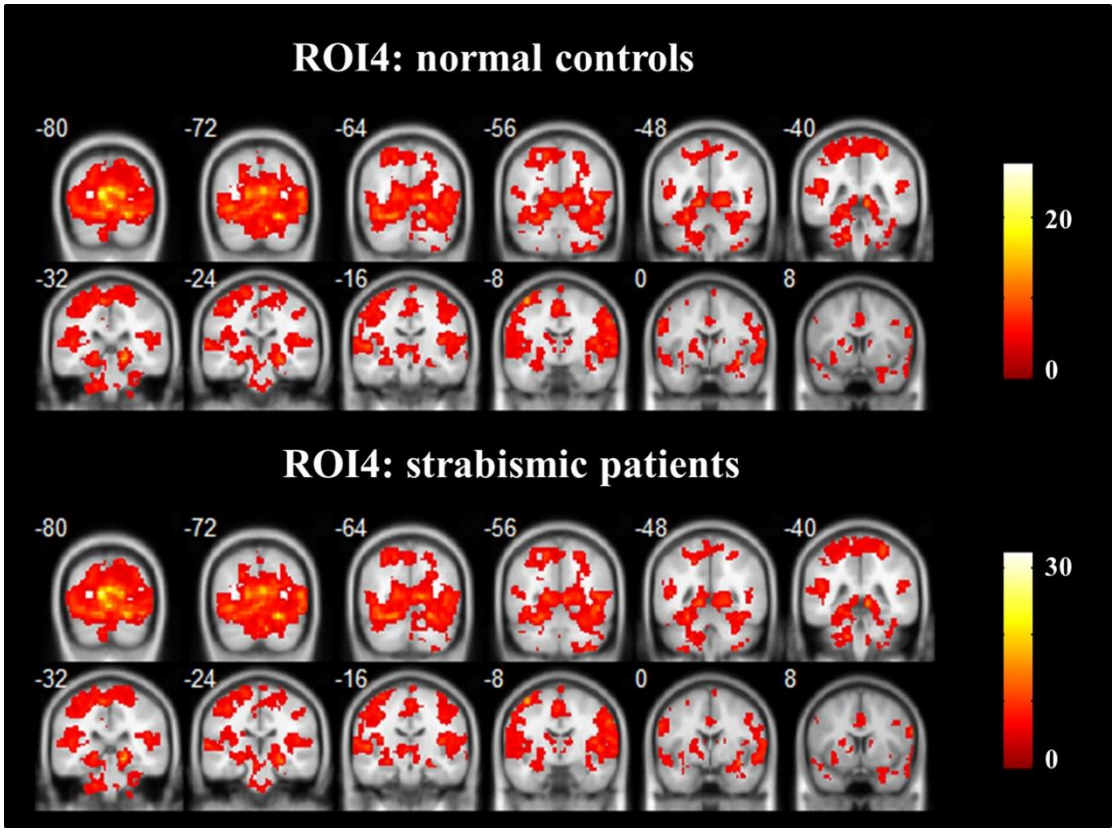

Table S1. Regions showing significantly increased positive functional connectivity with ROI1-4 in the SP group compared with the NC group (without the cluster size threshold, p=0.005, 20voxel, uncorrected).

ROI1 NC<SP

voxels	MNI coordinate	peak intensity	hemisphere	BA	region
44	48 0 -24	-4.5129	right	21	Middle Temporal Gyrus
26	27 -9 -33	-3.8855	right	28	Parahippocampa Gyrus
21	39 -48 -6	-5.7695	right	19	Fusiform
22	69 -30 -6	-3.817	right	21/22	Middle Temporal Gyrus
26	6 -90 9	-3.4771	right	18	Calcarine
42	0 -42 63	-3.8789	left	5	Paracentral Lobule/Precuneus
40	6 -21 -45	-4.5552	bilateral		Brainstem

ROI2 NC<SP

voxels	MNI coordinate	peak intensity	hemisphere	BA	region
310	24 -75 -9	-4.3587	bilateral	19/18	Middle Occipital Gyrus/Lingual Gyrus
24	-36 -75 -6	-3.5251	left	19	Inferior Occipital Gyrus/Fusiform
28	30 -42 -6	-4.6155	right	19	Parahippocampa Gyrus
40	57 -18 -3	-3.7608	right	22/21	Superior Temporal Gyrus
22	-45 -87 0	-4.4197	left	19	Middle Occipital Gyrus
26	72 -36 0	-3.8808	right	22/21	Middle Temporal Gyrus
26	-21 -93 9	-3.9066	left	18	Middle Occipital Gyrus
118	-36 -78 18	-4.2108	left	19/39	Middle Temporal Gyrus/Middle Occipital Gyrus
36	6 -78 45	-3.8956	right	7	Precuneus
63	9 -18 42	-4.8155	right	24/31	Middle Cingulate Gyrus
48	-21 -24 51	-4.7588	left	3	Precentral Gyrus/Middle Cingulate Gyrus
34	21 -33 48	-4.6268	right	5	Paracentral Lobule
35	-12 -63 66	-3.8408	left	7	Precuneus

ROI3 NC<SP

voxels	MNI coordinate	peak intensity	hemisphere	BA	region
52	12 -72 -3	-4.186	right	18/19	Lingual Gyrus
45	30 -39 -3	-5.5017	right	19	Parahippocampa Gyrus
32	69 -33 -3	-3.738	right	22/21	Middle Temporal Gyrus
20	33 66 9	-3.8145	right	10	Middle Frontal Gyrus
38	-45 -60 15	-3.8043	left	39	Middle Temporal Gyrus
53	12 -9 42	-4.9246	right	24/31	Middle Cingulate Gyrus

		26	-12 -15 60	-3.5429	left	6	Medial Frontal Gyrus
		23	12 -18 78	-4.2432	right	6	Medial Frontal Gyrus

		voxels	MNI coordinate	peak intensity	hemisphere	BA	region
ROI4	NC<SP	321	30 -84 0	-5.162	right	19/18	Lingual Gyrus/Middle Occipital Gyrus
		205	-36 -81 18	-4.998	left	19/39	Middle Temporal Gyrus/Middle Occipital Gyrus
		192	15 -18 78	-5.4045	right	6/4/3	Superior Frontal Gyrus/Medial Frontal Gyrus
		120	69 -42 3	-4.6278	right	22/21	Superior Temporal Gyrus/Middle Temporal Gyrus
		34	-18 -81 -6	-4.4259	left	18	Lingual Gyrus
		32	-30 -51 -3	-4.7316	left	19	Lingual Gyrus/Parahippocampa Gyrus
		29	-45 -87 0	-4.4678	left	19	Middle Occipital Gyrus
		26	-54 -24 0	-4.0913	left	22/41	Superior Temporal Gyrus/Middle Temporal Gyrus
		43	27 66 12	-4.177	right	10	Middle Frontal Gyrus/Superior Frontal Gyrus
		25	-54 -42 18	-3.6835	left	40/22	Superior Temporal Gyrus/Middle Temporal Gyrus
		53	9 -18 45	-4.5052	right	24/31	Middle Cingulate Gyrus
		122	-15 -45 60	-5.0381	left	6	Medial Frontal Gyrus