

BRAIN SCAN RESULTS
FOR CZECH RESEARCH ON PBSP AT CHARLES UNIVERSITY
with Jiri Horacek, MD

Table 1:

The change of the BOLD fMR signal associated with the trauma (active) blocks visual activation before the PBSP psychotherapy (baseline). The results indicate the higher and lower fMR signal in trauma (active) blocks in comparison with control neutral blocks condition. The p-values for all voxels exceeding the height threshold ($T=3,71$) and extent threshold of 10 or more voxels ($k=10$) are lower than 0,005. The statistical significance for the whole model (set-level) indicating the chance of finding this or a greater number of clusters in the search is $p = xy$.

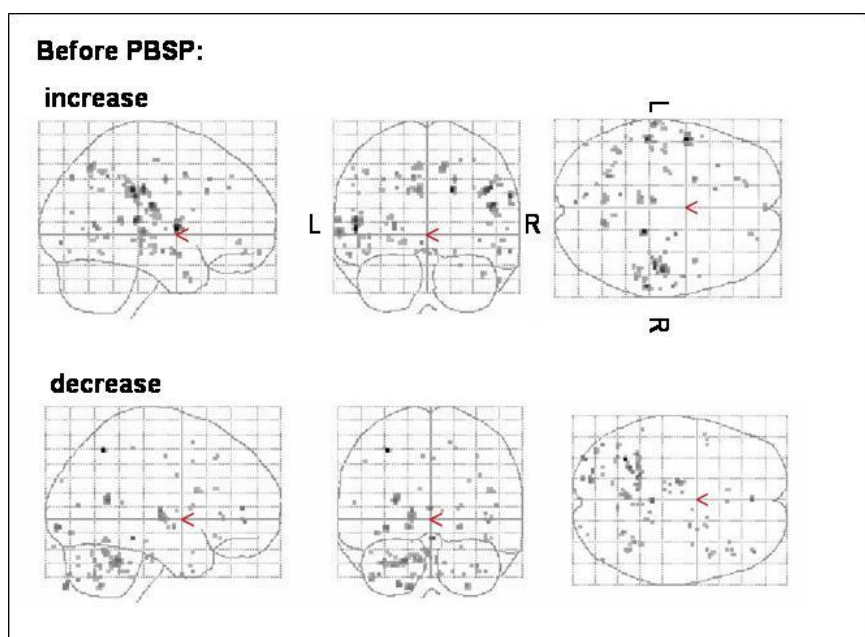
Note: R, right hemisphere; L, left hemisphere; BA, Brodmann's Area; x, y, z, coordinates of the Talairach space for each maximum; k_E , is the number of voxels extended the threshold of 5 or more.

Cerebral region	k_E	T=	x	y	z	L or R	(BA)
Increase							
Superior Temporal Gyrus	15	10.28	-52	0	4	L	22
Superior Temporal Gyrus	13	7.82	-52	-30	10	L	41
Postcentral Gyrus	17	7.77	46	-24	34	R	2
Insula	27	7.74	48	-18	22	R	13
Postcentral Gyrus		4.36	52	-16	14	R	43
Inferior Parietal Lobule	16	7.65	60	-30	28	R	40
Superior Temporal Gyrus	19	6.30	-64	-24	2	L	22
Precuneus	12	5.58	12	-62	50	R	7
Cingulate Gyrus	11	5.48	-6	-26	32	L	23
Cingulate Gyrus	11	4.93	-8	-34	32	L	31
Precuneus	11	4.59	-6	-62	50	L	7
Decrease							
Superior Parietal Lobule	11	14.61	-32	-58	50	L	7
Inferior Occipital Gyrus	26	8.58	-32	-90	-6	L	18
Ventral Posterior Lateral Nucleus of Thalamus	49	8.35	-14	-16	6	L	
Medial Globus Pallidus		5.46	-14	-10	-6	L	
Inferior Occipital Gyrus	14	7.65	-16	-92	-6	L	17
Lateral Globus Pallidus	25	7.06	20	-6	-6	R	
Inferior Occipital Gyrus	14	6.81	-40	-82	-10	L	18
Middle Temporal Gyrus	12	6.76	48	-76	10	R	39
Fusiform Gyrus	29	6.52	40	-54	-16	R	37
Fusiform Gyrus		3.95	42	-48	-22	R	37
Inferior Frontal Gyrus	25	6.47	40	28	4	R	13
Inferior Frontal Gyrus		4.52	44	24	10	R	13
Inferior Frontal Gyrus	42	6.32	44	10	20	R	45
Precentral Gyrus	16	6.19	36	-4	32	R	6
Putamen	27	5.77	22	8	10	R	
Clastrum		4.53	30	12	8	R	

Fusiform Gyrus	17	5.75	22	-94	-20	R	18
Inferior Frontal Gyrus	32	5.66	40	24	-12	R	47
Inferior Frontal Gyrus		4.53	44	28	-18	R	47
Middle Temporal Gyrus	18	5.48	-52	6	-34	L	21
Medial Frontal Gyrus	11	4.83	6	54	12	R	10

Figure 1:

The areas with increased and decreased BOLD fMR signal associated with the trauma (active) blocks visual activation in comparison with control neutral blocks condition in before and after PBSP investigation. Note: R, right hemisphere; L, left hemisphere.



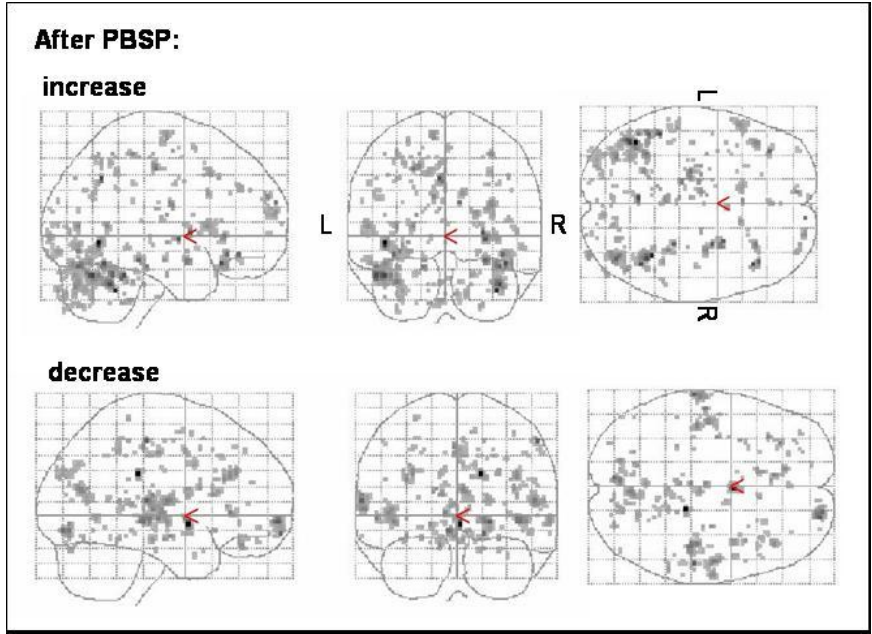


Table 2:

The differences in BOLD fMRI signal in investigations before and after PBSP psychotherapy session. The population inference analysis (2nd level) was analyzed by paired the T – test. The p-values for all voxels exceeding the height threshold (T=3,71) and extent threshold of 10 or more voxels (k=10) are lower than 0,005. The statistical significance for the whole model (set-level) indicating the chance of finding this or a greater number of clusters in the search is $p = xy$.

Note: R, right hemisphere; L, left hemisphere; BA, Brodmann’s Area; x, y, z, coordinates of the Talairach space for each maximum; k_E , is the number of voxels extended the threshold of 5 or more.